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## DIRECTIONS to

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The USE of the Globular Charts is Capacity; fundry Examples laid down on the faid $\mathbf{C}$ added, whereby the Mariner will be able to judge of the T of the Plain Chart fhewn, that fo the Mariner may avoid t

By NATHANIELC

## $\begin{array}{lllll}L & O & N & D & O\end{array}$

Printed for James and John Knapton, William and John in Bartholomere-Clofe; Arthur Bertesworth, JohnOs Roev; JobnSenex in Fleet-ftreet; Edward Symon in Cor St. Martin's Lane; and the Exccuors of William Taylor de
myufified by Dr. Ha L LE Y.
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S on the PLANE of the Equinoctial,
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all which are Prefix'd,

## JS to MARINERS,

f E R E B Y

Charts is made Plain and Eafy to the meaneft in on the faid Charts, and the Arithmetical Computations oo judge of the Truth of the faid Charts; and the Errors riner may avoid them.

ANIEL CUTLER.

## $0 \mathrm{~N} D \mathrm{D} \mathrm{N}$ :

Liam and John Innys in St. Paul's Church-yard; John Darbi orth, John Osborn and Thomas Longman in Patcr-itofietion dam Taylor deceas'd. M.DCC.XXVIII.
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## DIRECTIONS to

Whercby the USE of

## $G L O B U L A R$

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## $S$ to MARINERS,

the USE of the
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th the Diff. of Latitude : of Longitude. E.
ween the S. and W. till er Departure 35 miles ;

Center $C$ of the Pro, over F the Center of For (2), io that its Edge pals thro' the Middle$f^{\circ} 47^{\prime}\left(f^{\prime}\right)$, in the Qua: count the Departure rom F to g ; thro' the imagine a Line drawn FH, as $g / b$; cutting the if the upper Protractor*,*Thefer, dge thew F b the Diff. trations
a.c:trisely in.t tit 11
:-Latitude, F $g$ the De. ude.
 Mr. Tho. arture will give accor- ${ }^{\mathrm{N} / \mathrm{W} \text { right, Th, }}$ gitude. Statbem, Longitude will be exact ${ }_{f=14 m e n t-1}^{n-a l}$ texceeding 100 or 150 Mazer t, 'oles; but in large Dif: wis mares i, it will be beft for the ${ }^{\rho / 2,}$, ateryand : by help of the rable cinnes in Acthod taught.
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ct O Q perpendicular to Quarter of an Incheach, , and from O towards



## iii





# DIRECTIONS to M 

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# $G L O B U L A R$ 

Is made Plain and Eafy to the meane


OR the more eafy Ufe of the Globular Chartsand other Purpofes in Navigation, it will be proper for the Marincr to make on Velum, thick Parchment, or Paftboard (or to have made in Brafs) two Protractors in the following Forms :

Figure 1. Draw A 3, and crect CD perpendicular thereto ; on the Center C, with an Interval of about 3 Inches, defcribe the Scmi-circle ADB: Divide each Quadrant, AD and DB, into 8 equal Parts, rcprefenting the Points of the Marincr's Cempals, number them, as in the Figure, and divide each of thofe Points into Half-points and Quarter-points.

After the fame manner may another Protractor be made, in which each Quadrant may be divided into go cqual Parts or Degrees, as EHGE. Fig. $=$.

Agsain, Divide cach of the Radius's, $\mathrm{C} 0, \mathrm{C} n, \mathrm{~F} r$, and $\mathrm{F} s$, into so cqual Parts, and thro' the feveral Divifions draw Lines parallel to the faid Radius's ; as the Figures i, 2, direct.

The Ule of thefe Protractors are,

> 1. To lay down y given Angle. $E X A A P E$.

From the given Point L, Fig. ${ }_{3}$, in a Line IK given, to make an Angle of 70 Degrees.
Lay the Center of the Protractor to the given Point L, fo dureshe Side of she Droractor E G may soincide with the
4. Having the and De

A Ship from her Diff. of Lati to find her Diff

Latitude came f Dift. of Latitud

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in the Poiut ( $/ 5$ of Longitude to Univertally parture, F $b$ wil

And here aga dingly $\frac{1}{2}, \frac{1}{1}, \frac{1}{1}, 0$

This Methoc enough in all th miles, and in L tances, and in Mariner to find of meridional 4

## to MARINERS,

he USE of the

# $R C H A R T S$ 

## to the meaneft Capacities, Eoc $c$.

4. Having the Laticude faild from, with the Diff. of Latitude and Departure ; to find the Diff. of Longitude. $E X A M P L E$.
A Ship from the Lat. $35^{\circ} \mathrm{N}$. fails between the S . and W. till her Diff. of Latitude is 25 miles, and her Departure 35 miles; to find her Diff. of Longitude.


Lay the Center C of the Protractor (1), over F the Center of the Protractor (2), to that its Edge C A may pats thro' the MiddleLatitude $34^{\circ} 47^{\prime}(f)$, in the Quadrant EH: count the Departure 35 miles from F to g ; thro' the Point (\%) imagine a Line drawn parallel to FH , as $g h$; cutting the Edge C A ofthe upper Protractor *, *Theqero. in the Point ( $/ 5$ ) ; then will the faid Edge lhew $\mathrm{F} b$ the Diff. trators of Longitude to be $+2 \div$ miles. acter ely mate in
 parture, F $b$ will be the Diff of Longitude.

And here again, $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}$, of the Departure will give accorar. Tho. dingly $2, \frac{1}{3}, \forall C$ of the Diff. of Longitude.

Wright,
This Method of finding the Diff. of Longitude will be exact theninenough in all thort Diftances failed, not exceeding 100 or 150 Manerert, miles, and in Latitudes not near the Poles; but in large Dif. ihs mase tances, and in Latitudes near the Poles, it will be beft for the ${ }^{h}$, arery and Mariner to find the Diff. of Longitude by help of the 'Table (i) , me of meridional Parts, by the common Method taught.

[^0]After the fame manner may another Protrac. Je made, in which each Quadrant may be divided into go cqual Parts or Degrees, as EHGE. Fig. 2.

Algain, Divide cach of the Radius's, $\mathbf{C o}, \mathbf{C} n, \mathbf{F r}$, and $\mathbf{F s}$, into 50 cqual Parts, and thro' the feveral Divifions draw Lincs parallel to the faid Radius's; as the ligures 1, 2, direct.

The Ule of thefe Protractors are,

## 1. To lay down any given Angle. $E X A M P L E$.

From the given Point L, Fig. 3 , in a Line IK given, ro make an Angle of 70 Degrees.

Lay the Center of the Protractor to the given Point L, fo that the Side of the Protractor $\mathbf{E G}$ may coincide with the given line 1 K ; then by $70^{\circ}$, in the Limb of the Protractor, make a Point on the Paper, as $M$; by $L$ and $M$ draw a Line, the Angle MLG is an Angle of 70 Degrees.
2. Having the feveral Courfes and thorr Diftances failed, as in the Log-Book, to find the Diff. of Latitude and Departure for cach.

$$
E X A M P L E
$$

A Ship fails N.E. by N. ${ }_{4}$ Miles, to find the Diff. of Latirude and Departure.

Lay the Center F of the Protractor (2) upon the Center C of the Protractor ( 1 ), fo that its Edge F E may pats thro' the 3 d Rumb, as the Line $\mathrm{C}_{3}$; then by 45 miles counted from the Center F, on the Edge F E, of the upper Protractor, make a Point on the under Protractor, as ( $m$; ) thro' the Point ( $m$ ) imagine a Linc drawn parallel to CD, as $p m$; $\mathrm{C} p$ equal to m $q$, eflimated by the Divifions from the Center C, Shews the Diff. of Latitude to be $27 \frac{1}{2}$ miles, and $(p m)$ the Departure 25 miles.

If the Diftance given be above 50 miles, lay off $\frac{2}{2}, \frac{1}{1} \frac{1}{木}$ \& $\mathcal{E} c$. of the fame, it will accordingly fhew $\frac{1}{2}, \frac{1}{4}+$, Eic. of the Diff: of Latitude and Departure.
3. Having given the Diff. of Latitude and Departure, to find the Courte and Dittance.

$$
\because X A A P L E
$$

A Ship makes her Diff. of Latitude $27 \div$ miles, and her Departure 25 miles, to find her Courte and Diftance.

The Dilf. of Latitude $27 \frac{1}{1}$ miles being counted from C to $p$, and the Departure 25 , les from $(p)$ to ( $m$ ), and the Center F of the Protrator (2) being laid on the Center C of the Protractor ( 1 ), fo that its Edge FE may touch the Point ( $m$ ), the liad Edge FE will thew the Courfe in the Quadrant A D to be 3 Points, and the Diftance $\mathrm{C} m$ to be 45 milcs .

If the Dilf. of Latitude or Departure be too large for the Protractor, lay of $\frac{1}{2}, \frac{1}{1} \frac{1}{6}, \mathcal{E} c$. of the given Diff. of Latitude, and $: \frac{1}{3}, 4, \underbrace{}_{0}$. of the given Departure, then will the laid Edee FE Hew the true Courfe in the Quadrant AD, and by its Edje from F i, $; \frac{1}{4}$, שr. of the Diftance accordingly.
in the Point ( $/$ ) ; then will the faid Edge thew F $b$ the Diff. of Longitude to be $42 \div$ miles. "wictrately
 parture, $\mathrm{F} b$ will be the Diff. of Longitude. bibad of And here again, $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}$, of the Departure will give accor- Wr. Thight. dingly $\frac{1}{2}, \frac{1}{1}, \dot{4}, \mathcal{E}_{6} c$ of the Diff. of Longitude.

Mathern.t-
 enough in all fhort Diftances failed, not exceeding 100 or 150 Mater is
 tances, and in Latitudes near the Poles, it will be beft for the Mariner to find the Diff. of Longitude by help of the Table crery and of meridional Parts, by the common Mcthod taught.

IT may be proper alfo for the Matiner to make the following Figure on Paper. Fig. 4.
Draw the Line NP, and from O crect O Q perpendicular to NP; lay off 6 equal Parts of about a Quarter of an Incheach, on the Line NP, from O towards N , and from O towards P ; by cach of which Divifions, and the Point Q , draw Lines; draw alfo threc, four, or more Lincs, parallel to NP, as RS, TV, W X, 飞̌c.

The Ufe of this is for the more cafy dividing each of the equal Parts of any Line into twelve or fix other equal Parts.

$$
E X A M P L E
$$

To divide each of the equal Parts of the Line 11. 17. Fig. 5. into $I_{2}$ cqual larts.

Take the Part 11.13 . in the Compaffes, and apply the Points of the Comparfes in a parallel Pofition to TV in Fis 4, as near as may be, till they fall in the outer Lincs NQ and PQ, as in the Points $Y$ and $Z$; told the Paper Back to Back by the Points $Y$ and $Z$, to that the folded Edge may be parallel to TV, the Diftance Y $Z$ on the Edge of the folded Paper applicd to the feveral equal Parts of the Line 11.17. they may thercby be readily divided into 12 equal Parts.

$$
E X A M P L E=
$$

To divide each of the Equal Parts of the Line 41,44, Fig. 6. into 6 Equal Parts.

Take the Part 41, 42. in the Compaffes, and apply the Points of the Compaffes in a parallel Pofition to RS in Hig. 4. as ncar as may be, till they fall in the Lincs $O Q$ and $N Q$, as in the Points (a) and (b). Fold the Paper Back to Back by the Points ( $b$ ) and (a), fo that the folded Edge $a b$ may be parallel to R S; the Diftance $a b$ on the folded Edge being applied to the feveral Equal Parts of the Linc +1 , 44, they may thercby be readily divided cach into 6 Equal Parts.

If the Mariner divide each Quadrant of a Circle into 90 Equal Parts or Degrces, and alfo into 8 Equal Parts. reprefenting the Points of the Marincr's Compats, and thofe Points again into Half-points and Quarter-points, and number and mark it with Variation E. or W. as Fig. 7. The Variation E. or W.being to be accounted in each Quadrant that way the Darts are made flying, he may very readily allow tor the Variation of the Compals in cach Courte beforc he fers them down in his Log-Book.


In the Globular Charts, the Lines drawn from the Top to the Bottom are Meridians, or North and South Lines; thele from the Equator approach nearer to each other, till at length they all meet in the Poles, as they do on the Globe.

The Curve, or crooked Lines, i finm rhe I afrha-d to the Right-hand, are Parallels of 1 Lines.

The Figures at the Top or Bottor: Degrees of Longitude Eaft or Weft pafling thro' the City of London.

The Figures on each fide of each ly the Figures placed to that Mcrid: middle of each Chart, thew the D (
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rections to MARINERS.
The Mariner (at the End of ench ze Hours bathes) finding the Latitude and Longitude his Ship is gor mes, by liclp of the

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$\qquad$
theTop to the ; theic from at length they Table of meridional Parts, according to the common Method taught, may thus prick off his Ship's Place on the Chart. And this Method of finding, the Ship's Place on the Chart by the Latitude and L.ongitude the is got into, is molt to be depended on, and ought conitantly to be uted.

## I R O B L E M IV.

Gizen, Any Point on the Chart.
From thence to draw any given Rhamb.
Here it is to be obterved, 'That by realon rhe Meridians on the Globe do incline towards each other, till at length they all meer in the Poles, and like Rhumbs, making equal Angles with every Meridian which they pals thro': 'Therefore the Rumbs are not Right Lincs, but Curves, or Spiral Lines, on the Globe ; and therefore muft be fo drawn on thete Chares.


PROBLEM III.
Gizen, The Latitude and Longitude of a Point or Place. Required, Such Point or Place on the Chart. $E X A M P L E$.
A Ship is got into the Latitude of $19^{\circ}$ North, Longitude $3^{\circ} 30$ Eaft: 「o find the Point or Place on the Chart where the is. Fig. S.

Lay the Edge of a Ruler, as Z.X, over the given Longitude $3^{\circ} 30^{\prime}$ Eaft, both in the Parallel of $20^{\circ}$ (the next Parallel above the given Latitude) as alfo in the Parallel of $15^{\circ}$ (the next Parallel below the faid Latitude).

Then from the graduated Meridian paffing nearly thro' tice middle of the Chart, from the Parallel of is Degrees take the Diftance to the given Latitude $19^{\circ}$, the fame Diftance laid by the Edge of the laid Ruler from the fame Parallel of is Degrees the fame way, will give the Point $A$ the Place where the Ship is.

Latitude. After the fame
manner there
being given
the $\left\{\begin{array}{ccc}15 & 25 & \mathrm{~N} . \\ 12 & 56 & \mathrm{~N} . \\ 8 & 20 & \mathrm{~N} . \\ 2 & 40 & \mathrm{~N} . \\ 1 & 30 & \mathrm{~S} .\end{array}\right.$

Lougitude.

the Point $F$, b veral Weftern

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To lay off a This may be paffing nearly 60 Miles for cac Leagucs on the $N$.B. If the given Dift: the faid Gr:

From the $\mathrm{P}_{0}$ W.S.W. Rhumb

Take 5 Degr

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$M P L E=$.
down an Eaft Rhunb. Fig.g. from the loint $F$ to the next Paoff that Diftance upon the next on the fame Parallel of Latitude, from $K$ to $L$, from $M$ to $N$, 气 L, N, छ̌r.
....... .... a.ant uatures a $W$ cft Rhumb might be drawn from the Point $F$, by laying off the Difance $F \mathbf{G}$ upon the next foveral Weftern Meridians, from the fame Parallel of Latitude. $E X A M T L E ;$
From the Point S to draw a due North or South Line. Fig. 9. Lay the Edge of a Ruler by the Point $S$. fo that it may pats thro' the like Degres and Minutes of Longitude in the two next Parallels of Latitude to the faid Point (the one above it, the other below it) and from the liad Point $S$ draw sis southerlo.

## PROBLEMV.

To lay off any Number of Miles on any given Rhumb.
This may be done by the help of the Graduated Meridian paffing nearly thro' the middle of the Chart, by allowing 60 Miles for cach Degree, or by help of the Scale of Miles or Leagucs on the Chart.
N. $B$. If the Rhumb curve much, it will be beft to lay off the
given Diftance by given Diftance by 2, 3 , or more flort Extents taken from the faid Graduated Mcridian, or Scalc of Milcs or Leagucs. Frome E $X A M P L E$. From the Point A, Fig.9. To lay off 600 Miles on the W.S.W. Rhumb.

Take ${ }_{5}$ Degrecs or 300 Miles from the Graduated Meridian paffing nearly thro' the middle of the Chart, and lay the fame

| $E$ | $X$ | $A$ | $M$ | $P$ | $L$ | $E$ |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- |$\quad S$.

In the Globular Charts, the Lines drawn from the Top to the Bottom are Meridians, or North and South Lines; thete from the Equator approach nearer to cach other, till at length they all meet in the Poles, as they do on the Globe.

The Curve, or crooked Lines, drawn from the Left-hand to the Right-hand, are Parallels of Latitude, or Eaft and Weft Lines.

The Figures at the Top or Bottom of each Chart, flew the Degrecs of Longitude Eaft or Weft from the Firft Meridian, palfing thro' the City of London.
The Figures on each fide of each Chart, but more accurately the Figures placed to that Mcridian paffing nearly thro' the middle of each Chart, thew the Degrees of Lat. N. or S.

## PROBLEMI.

Given, Any Point or Place on the Chart.
Kequtred, its Latitude.

$$
E N A M P L E
$$

The Point $A$ is given. Fig $\because$. To find its Latitude.
The fhorect Diitance from the Point A to the Parallel of : Degrecs being laid on the graduated Meridian, pafling nearly thro' the middle of the Chart from the lame Parallel of Degrecs the fame way, fhews the Latitude of the Point $A$ to be $19^{\circ} 00^{\prime}$ North.

PROBLEM II.
Given, Any Point or Place on the Chart.
Razuired, Its Longitude.

$$
E X A M P L E
$$

The Point A is given. Fig. 8. To find its Longitude.
Lay the Edge of a Ruler, as Z X, by the given Point A, So that it may pafs thro' the like Degrees and Minutes of Longitude both in the Parallel of $20^{\circ}$ (the next Parallel above the given Point) as allo in the Parallel of $15^{\circ}$ (the next Parallel below the given Point); then will the faid Edge of the Ruler $Z X$, fhew the Longitude of the given Point $A$ to be $3^{\circ} \quad 30^{\prime}$ Eatt.
afterthe dame man- $\left[\begin{array}{c}B \\ C\end{array}\right]$ will be found to be $\left[\begin{array}{lll}7 & 40 & E \\ 6 & 08 & E\end{array}\right.$

The Mariner (at the End ot exch $2+10$ Ours fuht the Latitude and Longitude his ship is gor mio, by Table of meridional Parts, according to the comm taught, may thus prick off his Ship's Place on And this Method of findiny, the Ship's llace on th the Latitude and longitude the is got into, is mo pended on, and ought contanty to be ules.

## PROBLEMIV.

Given, Any Poiut on the Chart.
From thence to draw any given Rhumb.
Here it is to be obferved. That hy realon the M the Globe do incline towards cach other, till at Ien! meet in the Poles, and like Rhumbs, making ec with cvery Meridian which they pals thro':' II Rumbs are not Right Lincs, but Curves, or Spira the Globe; and therefore muft be fo drawn on the $E A A M P E 1$.
From the Point A in lig. g. to draw a W.S W. 1
Lay the Center of the Protractor to the given that its fide BC may coincide with the Meridian in Point A is, if A happens to be in a Mcridian ; Point A happens not to be in a Meridim, as in ple, then fo lay the Center of the Protractor by tl that its fide BC may pafs thro' like Degrees and Longitude in the two next Parallels of Latitude to (the one above it, the other below it). The Prot fo ladd, by the fixth Point or W.S.W. Rhumb, in the Protractor make a Point on the Chart, as D, Points $A$ and $D$ draw a I ine till it cut the next, $i$. Meridian, in the Point ( 1 ).
Again, Lay the Center of the Protractor by th (1), to that its fide BC may coincide with the fai ridian, and by the fixth l'oint or W.S.W. Rhumb of the Protactor make another Point on the Char and the faid Point (1) draw the Line (1. 2.) cuttin i. c. the cighth Meridian in the Point (2.)

After the fame manner draw lines from one Men other, making Angles of 6 Points with every M you have the Rhumb A, $, 2,3,4,5,6$.
In like manner may any Rhumb, whecher a Half-point, or Quarter-point of the Compals bo And if the other Pro ractor, whole Limb is divide 90 Degrees be ufed, any Rhumb in Degrecs may be a

It is to be noted, That the nearer the Meridian together on the Chart, the more accurate will th when laid down by this Method: The Rhumb enough if the Mcridians pals thro' every fingle Dc gitude ; but if the Meridians on the Chart pats thre two Degrecs of Longitude, in fich Cale, if the M be very exact, he may draw new Meridians on his middle between cyery two of fuch Meridians, fhall have Occafion to lay off fich Rhumb.

And fecing thofe R humbs that are near the $\mathbf{N}$ run a great length before they erols the next Mariner may draw new Mcridians thro' every Longitude, to tar as he fhall have Occafion to

Wh = Hours buhng) finding hip is got meto, hy liclp of the rding to the common Method ; Ship's Place on the Chart. Ship's Place on the Chart by is got into, is mofl to be de$y$ to be ulct.

## E M IV.

 chart.given Rhumb.
lat hy realou the Meridians on ch other, till at lengeth they all Zhumbs, making equal Augles ey pals thro': Therefore the but Curves, or Spiral Lincs, on the to drawn on thele Charts.
$P L E 1$
to drav a W.S W. Rhumb, ractor to the given Point $A$, fo with the Meridian in which the be in a Mcridian; but it the a Meridian, as in this Examthe Protractor by the Point A, $\circ^{\circ}$ like Degres and Minutes of rallels of Latitude to the Point A clow it). The Protractor being W.S.W. Rlumb, in the Limb of on the Chart, as D, and by the till it cut the next, i. c. the ninth
the Protractor by the faid Point coinclde with the faid ninth Mcor W.S.W. Rhumb in the Limb er Point on the Chart, by which fe Line (1. 2.) cutting the next, lc Point (2.)
Lines from one Meridian to anPoints with every Meridian, and $2,3,4,5,6$.
humb, whether a Whole poine, E of the Compals be laid down: whofe Limb is divided into twice b in Degrecs may be alfo deferibed. e nearer the Meridians are placed more accurate will the Rhumb be ethod: The Rhumb will be near thro' every fuggle Degree of Lonon the Chart pals thro' only cevery in fuch Cale, if the Mariner would new Meridians on his Chart in the of fuch Meridians, to far as he ff fich R humb.
s that are near the North or South acy crots the next Meridian, the ridians thro' every 30 Minutes of

$E \times \pi M P 7$
The roint A is given. $/$ is 8. To fin The fhotelt Dittance from the Poin ot in Degrees bemg laid on the graduat nearly thro' the mudde of the Chart fro of "i Degrees the fame way, thews the La to be $19^{\circ}$ oo North.
Aficr the fame man- $\left\{\begin{array}{l}B \\ C\end{array}\right\}$ will be found ner the Point or $\langle\mathrm{D})$; in the La Mace-- $\left|\begin{array}{l}\mathbf{E} \\ \mathbf{E}\end{array}\right| \quad$ of -

PROBLEM Gizen, Any Point or Place on the Ch Razuired, Its Longitude.
$E X A M P L I$
The Point A is given. Fig. 8. To fing
Lay the Edge of a Rulcr, as Z.X, by fo that it may pals thro' the like Degrees gitude both in the Parallel of $20^{\circ}$ (the ne given Point) as allo in the Parallel of 15 below the given Point); then will the fai $Z X$, thew the Longitude of the giv $33^{\circ} 30^{\circ}$ Eatt.
After the fame man- $\left\{\begin{array}{l}B \\ C\end{array}\right\}$ will be found ner the Pomt or $\langle\mathrm{D}\rangle$ in the l.on
Place - $-\underset{\mathbf{E}}{\mathbf{E}}\} \mathbf{o f}$ -
If each Degrec of Longitude on the Fig. 4. be divided into 6 Equal Parts, Jongitude in each Parallel may very ace by the Eye.

## PROBLEM

Giach, The Latitude and Longitude of
Requived, Such Point or Place on the $E X A M Q L E$
A Ship is got into the Latitude of ig $j^{\circ} j^{\circ}$ Ealt : To find the Point or Place the is. Fig. S.

Lay the Eige of a Ruler, as Z X, over $3^{\circ} 30^{\prime}$ Eaft, both in the Parallel of $20^{\circ}$ above the given Latitude) as alfo in the next Parallel below the faid Latitude).

Then from the graduated Meridian paff middle of the Chart, from the Parallel Diftance to the given Latitude $19^{\circ}$, the f the Edge of the faid Ruler from the fame the fame way, will give the Point A t Ship is. After the fame
manner there
being given
the $\left\{\begin{array}{l}15 \\ 12 \\ 8 \\ 2 \\ 1\end{array}\right.$

Latitudc.
Longitude
7
$\begin{array}{ll}40 & \text { E. } \\ 08 & \text { E. } \\ 45 & \mathrm{~W} \\ 12 & \mathrm{E} . \\ 08 & \mathrm{~W} .\end{array}$
en. I is $\because$ To find its Latitude. ance from the Point A to the Parallel laid on the graduated Meridian, paffing dle of the Chart from the lame Parallel e way, thews the Latitude of the Point $\Lambda$


R OBLEM II. $t$ or Place on the Chart. gitude.
$E X A M P L E$. ren. Fig. S. To find its Longitude. 1 Ruler, as Z . , by the given Point A , ro' the like Degres and Minutes of Lontrallel of $20^{\circ}$ (the next Parallel above the in the Parallel of $15^{\circ}$ (the aext P'arallel it) ; then will the faid Edge of the Ruler ngitude of the given Point A to be
 f Longitude on the Chart, by help of to 6 Eipual Parts, the like Minutes of rallel may very accurately be judged of

## R OBLEM III.

lude and Longitude of a Point or Place. oint or Place on the Chart.
$E X A M \nmid P E$.
o the Latitude of $19^{\circ}$ North, Longitude d the Point or Place on the Chart where

Ruler, as Z X, over the given Longitude , the Parallel of $: 0^{\circ}$ (the next Parallel tude) as allo in the Parallel of $15^{\circ}$ (the the laid Latitude). dduated Meridian paffing nearly thro' the from the Parallel of ${ }_{10}^{20}$ Degrees take the Latitude $19^{\circ}$, the fame Dittance laid by Ruler from the fame Parallel of is Degrees give the Point A the Place where the

[^1]Mernan, ill the Pont ( 1 ).
Again, Lay the Center of the Protractor by the faid Point (1), to that its fide BC may coinende with the faid ninth Mcridian, and by the fixth D'oint or W.S.W. Rhumb in the Limb of the Protactor make another Point on the Chart, by which and the faid Point (1) draw the Line (1.2.) cutting the next, i. $c$. the cighth Meridian in the Point (2.)

After the lame manner draw Lines from one Meridian to another, making Angles of 6 Points with every Meridian, and you have the Rhumb A, $1,2,3,4,5,6$.

In like manner may any Rhumb, whether a Whole point, Halt point, or Quarter-pome of the Compals be laid down: And if the other Protractor, whofe Limb is divided into twice 90 Degrees be ufed, any R humb in Degrecs may be alfo deferibed.

It is to be noted, That the nearer the Meridians are placed together on the Chart, the more accurate will the Rhumb be when laid down by this Method: The Rhumb will be near cnough if the Meridians pafs thro" every fingle Degrec of Longitude ; but if the Meridians on the Chart pals thro' only cvery two Degrecs of Longitude, in lich Cale, if the Mariner would be very exact, he may draw new Meridians on his Chart in the middle between cevery two of fuch Meridians, to far as he fhall have Occafion to lay off fich Rhumb.

And fecing thofe R humbs that are near the North or Sourh run a great lengeth before they crots the next Meridian, the Mariner may draw new Meridians thro' cyery 30 Minures of Longitude, to far as he flatl have Occafion to lay off fuch Rhumbs.

$$
E X A M P L E=
$$

From the Point F to lay down an Eaft Rhumb. Fig.o.
Take the neareft Diftance from the Point $F$ to the next Parallel of Latitude, F G; lay off that Diftance upoin the next feveral Eaftern Meridians from the fame Parallel of Latitude, the fame way as from H to I , from K to L , from M to N , $\tilde{\mathrm{G}}_{\mathrm{c}}$ : and connect the Points F, I, I, N, שֶC.

After the fame manucr a Weft Rhomb mighe be drawn from the Point $F$, by laying of the Difance $F G$ upon the next $f=$ veral Weftern Meridians, from the fime Parallel of Latitude.

$$
E X A M Y L E
$$

From the Point S to draw a duc North or South Linc. Fig. o.
Lay the Edge of a Ruler by the Point S. fo that it may pats thro' the like Degress and Minutes of Longitude in the two next Parallels of Latitude to the faid Point (the one above it, the other below it) and from the liad Doint $S$ draw st southers.

## PROBLEMV.

To lay off any Number of Miles on any given Rhumb.
This may be done by the help of the Graduated Meridian paffing nearly thro' the middle of the Chart, by allowing 60 Miles for cach Degree, or by help of the Scale of Miles or Leagues on the Chart.
$N$. B. If the Rhumb curve much, it will be beft to lay off the given Diftance by 2,3 , or more flort Extents taken from the faid Graduated Meridian, or Scale of Milcs or Leagucs. $E X A M P L E$.
From the Point A, Fig.9. To lay off 600 Miles on the W.S.W. Rhumb.

Take ${ }_{5}$ Degrecs or 300 Miles from the Graduated Meridian paffing nearly thro' the middle of the Chart, and lay the tame

from A to P, and from Pto E, or lay off ${ }_{2}$ Deg. or ${ }_{120}$ Miles 5 times from A to $\mathbf{E}$.

## PROBLEMV.

Given, The Latitede and Longitude of a Place failed from, with the Courfe and Diftance failed.
Required, The Latitude and Longitude the Ship is arrived to.

$$
E X A A 1 P L E 1 \text {. }
$$

A Ship from A. Fis. 9. in the Latitude $3^{\circ}$ oo N. Longitude $9^{\circ} 30^{\prime}$ E. fails W.S.W. 600 Miles, What Latitude and Longitude is fie gotten into?
The Rhumb being drawn by Problem IV. and the Diftance A E laid of by 'Problem V. the Ship will be got to the Point E. the Latitide of whel by eproblem I. will be found to be $34^{\circ} 10^{\prime} \mathrm{N}$. and the Longitude $1^{\circ}{ }^{\circ} \mathbf{S O}^{\prime} \mathrm{W}$.
In order that the Mariner may juc Chart, here follows the Arithmerica

> As Radius

Is to the Diftance 600 Miles So is the Sine of the Courle 6: To the Departure 554 Miles
As Radius
Is to the Diftance 600 Miles So is the Sine Comp. of the Courfe To the Diff. of Latitude 2 jo Miles

$$
\begin{aligned}
& \text { Laritude came from } \\
& \text { Diff. of Latitude } \\
& \text { Latitude arrived to }
\end{aligned}
$$

Meridian Diff: of Latitude

Is to the Deparrure 554 >
So is the Merid. Diff. of Lat. 2851 To the Diff: of Lougit. 686 j

Longitude came from
Diff. of Longitude Longitude arrived to $E X A M$ ?
A Ship from F, Fig. 9 . in the Li $3^{\circ} 3^{\circ}$ ' Ef fails duc Eant 300 Miles, WI

The Rhumb being laid down by by Problem V. the Ship will be ge Longitude $9^{\circ} 7^{\prime}$ E. by Problem 1
The Arithmetical

As the Sine Comp. of the Latitud Is to the Diftance 300 Miles
So is Radius
$\cdots$ -

| ) 120 Miles | If the Mariner will take pains to find the Latitudes and |
| :---: | :---: |
|  | Longitudes that the Ship hath got into at the End of each 24 |
|  | Hours by Arithmetical Computation, he will find they agree |
|  | with thole by the Chart as above. which Computations I have |
| failed from, omitted, conceiving they would take up too nueh room. |  |
| rrived to. | A Ship from the Point A,Fig. is. in the Laritude $60^{\circ} 00^{\prime} \mathrm{N}$. |
|  | Longitude $20^{\circ} 00^{\prime}$ W. fails N.E. by E. 1200 Miles, What La. |
| N. Longiatitude and | titude and Longitude is the Ship got into? |
|  | The Courle being laid off by Problem IV. and the Diftance |
|  | by Problem V. the Ship will be found to be at the Point B, |
| he Diftance | in the Latitude $71^{\circ} 07^{\prime} \mathrm{N}$. by Prohlem 1. and in the Longitude |
| $o$ the Point found to | $20^{\circ} 53^{\prime}$ E. by Problem II. |
|  | The Arithmetical Computation. |

So is thic Merid. Diff. of Lat. 285
To the Diff. of Longit. 686;
Longitude came from
Diff. of Longitude
Longitude artived to

$$
E X A M \sqcap
$$

A Ship from F, Fig. 9. in the L: $3^{\circ} 30^{\prime}$ E. fails duc Eaft 300 Miles, Wl

The Rhumb being laid down by by 'Problem V. the Ship will be ge Longitude $9^{n} 7^{\prime}$ E. by Problem ${ }^{\prime}$

The Arithmetical '
As the Sinc Comp. of the Latitud Is to the Diftance 300 Miles
So is Radius -
e would be CB $7_{94}$ Miles, and o A, S.W. by W. 1200 Miles, A 1226 Miles; in the former art, the Mariner would con$: 204$ Miles more, and in the reality it is.
is for finding the faid true iftances.

lar Chart the Mariner will not the true Meridian Diftance in flort Diftancestaken from the Iv thro' the middle of the Chart, -eagues on the Chart, as other
ances of Places can be truly exmot fee, whilft it is taken on Meridians are parallec to each lart (Fig. 11.) was to be mide Latitude of $8^{\circ}$, and two Places in in the Latitude of $60^{\circ}$ diltant f two other Places were to bs $0^{\circ}$, the one bearing due North orth from ( $n$ ), the two Phaces c ( $p$ ) and ( $g$ ), diflians from cach pon the Surface of the Glebe, the Latitude of $60^{\circ}$, be diftaut lat Place in the Latiende of $80^{\circ}$

## Diredions to Mariners.

from A to P, and from Pto E, or lay off 2 Deg. or $1_{2}$ Miles 5 times from $A$ to $E$.

## PROBLEMVI.

Given, The Latitude and Longitude of a Place failed from, with the Courfe and Diftance failed.

Required, The Latitude and Longitude the Ship is arrived to. $E X A M P L E 1$.
A Ship from A. Fig. 9 . in the Latitude $38^{\circ} \circ 0^{\prime} \mathbf{N}$. Longitude $9^{\circ} 30^{\prime}$ E. fails W.S.W. 600 Miles, What Latitude and Longitude is fle gotten into?

The Rhumb being drawn by 'Problem IV. and the Diftance A E laid off by Problem V. the Ship will be got to the Point E. the Latitude of which by Problem I. will be founc to be $34^{\circ}$, $10^{\prime} \mathrm{N}$. and the Longitude by Problem II. will ic $1^{\circ}{ }_{51}{ }^{\prime} \mathrm{W}$.
In order that the Mariner may judge of the Truth of the Chart, here follows the Arithmetical Computation.


As Radius - - 10.000000


As the Diff. of Latitude
Is to the Departure

Miles.? N.B. This maybe wrought $2 j 0$ by the common Numbers, 554> as in the Rule of Three, without the belp of Lo. garitloms.
To the Diff. of Longit.
285
686;

$$
\begin{aligned}
& \text { Longitude came from - } 930 \mathrm{E} \\
& \text { Diff. of Longitude } \quad 1126 \mathrm{~W} \text {. } \\
& \text { Longitude arrived to }-\frac{156}{} \mathrm{~W} \text {. } \\
& E X A M \vec{Z} L E .
\end{aligned}
$$

A Ship fromF, Fis. 9. in the Latitude $27^{\circ} 10^{\circ}$ N. Longitude $3^{\circ}, 30^{\prime}$ E. failsduc Eaft 300 Miles, What Longit is he gotten inte?

The Rhumb being laid down by ProblemIV. and the Diftance by Problem V. the Ship will be gotten to the Point $Q$, in the Longitude $9^{n} 7^{\prime}$ E. by Problem II.

The Arithmetical Computation.


If the Mariner will take pains to find the Latio Longitudes that the Ship hath got into at the End o Hours by Arithmetical Computation, he will find $t$ with thofe by the Chart as above. which Computatio omitted, conceiving they would take up too much ro

## $E X A M P L E 4$.

A Ship from the Point A,Fig. in in the Latitude 6 Longitude $20^{\circ} 00^{\prime}$ W. fails N.E. by E. 1200 Miles, titude and Longitude is the Ship got into?

The Couric being laid off by ${ }^{\prime}$ roblem IV. and the by Problem V. the Ship will be found to be at the in the Latitude $7 \mathrm{r}^{\circ} \circ 7^{\prime} \mathrm{N}$. by Problem I . and an the I $20^{\circ} 53^{\prime} \mathbf{E}$. by Problem II.

The Arithmetical Computation.


As Radius
Is to the Diftance 1200 Miles So is the Sine Comp. of the Courfe To the Diff. of Latitude 667 Miles
 Meridian Diff. of Latitude

As the Diff. of Latitude
Is to the Departure So is the Merid. Diff: of Latitude - 1640 To the Diff. of Longitude 2453

It may be proper here for the Mariner to confid the Departure, altho properly enough made ule o difcovcring the Longitude in the Arithmetical Compu above, yet is not to be depended on for the Eftimati Ship's Eaft or Weft Diftance from the Mcridian of the failed from (commonly called Meridian Diftance) as make ufe of the fame; which Error Mariners have into by their ufing the Plain Charts; for by that, was to fail from A to B, N.E. by E. 1200 Miles (/ or from B to A, S.W. by S. 1200 Miles, in citho would appear by the PlainChart, and therefore fo th would naturally conclude, that his Departure or Mc tance would be 998 Miles, whereas in truth, by rea Inclination of the Mcridians in failing from $A$ to $B$,
ins to find the Latitudes and ot into at the End of each 24 tion, he will find they agree . which Computations I have take up too much room.
L $E 4^{\circ}$ I 1 . in the Latitude $60^{\circ} 00^{\prime} \mathrm{N}$. by E. 1200 Miles, What Lajot into?
roblem IV. and the Diffance found to be at the Point B, ablem I. and wa the Longitude

## Computation.


be Mariner to confider, That enough made ule of for the Arithmetical Computations as 1 on for the Eftiantion of has the Meridian of the Place firlt (teridian Diftance) as Mariners frror Mariners have been led harts; for by that, if a Slap
 200 Miles, in cither Cate it , and thercfore fo the Mariner his Departure or Mcridian Difreas in truth, by realon of the ailing from $A$ to $B$, N.E. by $E$. c would be CB 794 Miles, and



To the Diff: of Longit.
Longitude came from Diff. of Longitude Longitude arrived to $E X A$
A Ship from F, Fig. 9. in $3^{\circ} 30^{\prime}$ E. failsduc Eaft 300 Mi The R humb being laid dov by 'Problem V. the Ship wil Longitude $9^{n} 7^{\prime}$ E. by ${ }^{\prime}$ Pro The Arithme
As the Sinc Comp. of the I Is to the Diftance 300 Miles So is Radius
To the Diff. of Longitude
Longitude came from Diff. of Longitude
Longitude arrived to E X A
A Ship from the Poir $58^{\circ} 00^{\prime} \mathrm{N}$. Longirude $20^{\circ}$ Latitude $41^{\circ} 00^{\prime} \mathrm{N}$. Long makes her Way good S. W.b 90 Miles, the ${ }_{3}$ d Day S.S.W 110 Miles, the sth Day S. Miles, the $7^{\text {th }}$ Day S.W. b Miles, the gth Day W.S.W W. is 8 Miles, the in th Day SS.W. : W. 126 Miles Latitude and Longitude is 1 and Diftance to the faid Po

Having laid off the laid manner aforefaid, the Ship titudes and Longirudes in be found in the Point (is gitude ot ${ }^{\circ}, 44^{\prime} \mathrm{W}$. An S.W. by S. : W. nearelt d

The Forrnal of which the

ngitude came from ff. of Longitude ingitude arrived to $\quad \frac{1126}{156} \mathrm{~W}$.

$$
E X A M T L E
$$

ip from F, Fig. 9. in the Latitude $27^{\circ} 10^{\circ} \mathrm{N}$. Longitude S. fails duc Eaft 300 Miles, What Longit. is hhe gotten into? Rhumb being laid down by ProblemIV. and the Diftance blem V. the Ship will be gotten to the Point $\mathbf{Q}$, in the ude $9^{n} 7^{\prime}$ E. by Problem II.

The Arithmetical Computation.
Sinc Comp. of the Latitude $62^{\circ} 50^{\circ}$ — 0.949235 c Diftance 300 Miles adius
Diff. of Longitude 337 Miles
ongitude came from iff. of Longitude ongitude arrived to

$$
E X A M P L E
$$

hip from the Point A, Fig. 10. in the Latitude $;^{\prime} \mathrm{N}$. Longirude $20^{\circ} 00^{\prime} \mathrm{E}$. is bound to a Port X , in the de $41^{\circ}$ oo' N . Longitude $4^{\circ}$-0' W. the ift Day the her Way goodS.W. byW. 107 Miles, the 2dDay W. by S. les, the $3^{\text {d Day S.S.W. }} \mathrm{I}_{20}$ Miles, the $4^{\text {th D Day S. by E. }}$ tiles, the sth Day S.W. 100 Miles, the 6th Day W. 90 the $7^{\text {th }}$ Day S.W. by S. 120 Miles, the 8th Day S. I10 the gth Day W.S.W. 122 Miles, the soth Day W.N.W. $^{\text {D }}$. 18 Miles, the 11 th Day S.W. IW. $1_{24}$ Miles, the 12 th S.W. W. 126 Miles, the 13 th Day S. 122 Miles; What de and Longitude is fle got into, and what is her Courfe iftance to the faid Port X?
ving laid of the faid feveral Courfes and Diftances in er aforefaid, the Ship will have paft thro' the feveral Las and Lougitudes in the under-written Table, and at laft and in the Point ( 13 ), in the Latitude $43^{\circ}$ o5' N . Lon$\mathrm{O}^{\circ}{ }^{\circ} 44^{\prime} \mathrm{W}$. And the Port X will bear from her by S. ${ }^{\frac{1}{W}} \mathbf{W}$. neareft diftant ${ }_{16}$ : Miles.
he Fournal of which the Mariner may keep in the following Form.


Longitude arrived to

## 2053 E .

It may be proper here for the Mariner to confider, That the Departure, altho properly enough made ule of for the difcovering the Longitude in the Arithmetical Computations as above, yet is not to be depended on for the Eftimation of his Ship's Eaft or Weft Diftance from the Mcridian of the Place firft failed from (commonly called Mcridian Diftance) as Mariners make ufe of the fame; which Error Mariners have been Ied into by their ufing the Plain Charts; for by that, if a Ship was to fail from A to [B, N.E. by E. 1200 Miles (Fig. 11.), or from B io A, S.W. by S. 1200 Miles, in either Cafe it would appear by the PlainChart, and therefore fo the Mariner would naturally conclude, that his Departure or Mcridian Diftance would be 998 Miles, whercas in truth, by reafon of the Inclination of the Meridians in failing from A to B, N.E. by E. 1200 Miles, the Meridian Diftance would be CB 794 Miles, and no more ; but in failing from B to A, S.W. by W. 1200 Milcs, the Meridian Diftance would be D A 1226 Miles; in the former Cafe, by the Ufe of the Plain Chart, the Mariner would conclude his Meridian Diftance to be $2 \mathrm{O}_{4}$ Miles more, and in the later Cafe 228 Miles lefs than in reality it is.

## The Arithmetical Computations for finding the faid true Meridian Diftances.

## As Radius - - - 10.000000

 Is to the Diff. of Longitude ${ }^{2453 \text { Miles }} \quad 3.389697$ So is the Sine Comp. of the Latitude of B $18^{\circ} 53^{\prime} 9.510065$ To the Mcridian Diftance CB 794 Miles - 2.899762 $\begin{array}{ll}\text { As Radius } \\ \text { Is to the Diff. of Longitude } 2453 \text { Milcs - } & 10.500000 \\ 3.389697\end{array}$ So is the Sinc Comp. of the Latitude of A $30^{\circ} 00^{\circ} 9.698970$ To the Meridian Diftance D A 1226 Milcs -- 3.08966But by the Ufe of this Globular Chart the Mariner will not bc in danger of being to mifled : the rrue Meridian Diftance in cither Cale may be meafured by fhort Diftances taken from the Graduated Meridian paffing ncarly thro' the middle of the Chart, or from the Scale of Miles or Leagues on the Chart, as other Diftances are.

How the Eaft and Weft Diftances of Places can be truly exprefs'd on the Plain Chart I camnot fee, whilft it is taken on that Chart for granted that the Meridians are parallel to each other; for fuppofing a Plain Clart (Fig. 11.) was to be made from the Latitude of $60^{\circ}$ to the Latitude of $80^{\circ}$, and two Places (a) and ( $n$ ) were to be laid down in the Latitude of $60^{\circ}$ diftant from each orher 1200 Miles, if two othcr Places were to be, laid down in the Latitude of $80^{\circ}$, the onc bearing duc North from (a) and the other duc North from ( $u$ ), the two Places in the Latitude of $80^{\circ}$ would be ( $p$ ) and ( $q$ ), diftant from cach orher 1200 Miles alfo; but, upon the Surliace of the Globe, if the two Points A and N, in the Latitude of $60^{\circ}$, be diftant from each other 1200 Miles, that Place in the Laticude of $80^{\circ}$
bearing duc North from A would be $P$, and that in the Latitude of $80^{\circ}$ bearing duc North from $N$ would be $Q$, which Places 1 'and Qwould be diftant from each other no inore than 417 Milcs; i.c. the Places ( $p$ ) and ( $q$ ) on the Plain Chart would be reprefented 783 Miles farther diftant from each other than really they are. On the other hand, If two Places in the Latitude of $80^{\circ}$, diftant from each other 417 Miles, be laid down true on the Plain Chart, then two other Places in the Latitude of $60^{\circ}$, refpectively bearing due South from the former, would be reprefented diftant from cach other no more than 417 Miles alfo, whereas in reality, upon the Surface of the Globe, they would be diftant 1200 Miles; to that, in this Cafe, the two Places in the Latitude of $60^{\circ}$ would be reprelented 783 Miles lefs diftant from each other than in reality they are.

The Arithmetical Computaion is as follows:
Cio. sr.
As the Sine Comp. of the Latitude of AD $30^{\circ}-0.301029$ Is to the Diftance A D 1200 Miles ————3.079181 So is the Sine Comp. of the Latitude of PQ $10^{\circ}$...9.2 39670 To the Diftance PQ417 Miles 2.619880

Again, If the Eaft and Weft Diftances of Places are laid down true in the middle of the Plain Chart, then the Eaft and Weit Diftances of Places nearer to the Poie will be accordingly repretcoted greater, and thole nearer to the Equator Iefs than in reality they are.

The Bearings and Diftances of Places alfo on the Plain Chart mult be alfo faulty. As in the former Cafe the Courfe from (a) ro ( $q$ ) mult be reprefented N.E. (the Diff. of Latirude bcing fuppofed equal to the Departure) and the Diftance 1697 Miles. For As the Sine of the Courfe $45^{\circ} 00$ Is to rhe Departure 1200 Miles So is Radius To the Diftance aq 1697 Milcs
 9.849485 3.079181 10.000000 3.229696

But on the Terreftrial Globe the Courfe will be N. $3^{\circ}{ }^{\circ} \quad 56^{\prime}$ Eafterly, or N.E. by N. neareft, and the Diftance 1414 Miles, 2. $e$. rhe Courle will be repretented on the Plain Chart $13^{\circ} 04^{\prime}$ more than it is, and the Diftance 283 Miles more than in truth it is. Sce the Arithmetical Computation.

$$
\begin{array}{r}
\text { Diff. of Longir. } 40^{\circ} \\
\frac{60}{2400 \text { miles. }}
\end{array}
$$

| As the Meridian Diffo of Latitude $; 849$ mules |
| :--- |
| Is to the Diff: of Longitude 2400 miles |
| So is Radius |
| To the Tang. of the Courfe $31^{\circ} 56^{\prime}$ |

As the Sin Is to the I So is Radi To the D

And in Plain Char fometimes Ship's Wa the Comp: all is in hi Evil will afide their or Globule ftanding it of the Sur the Desrec on the Glo which are Right-Linc tudes and I Eyc much Mercator' may be and the curately taught : B Superficics cnough to Capacitics whercby mealured o Mariners Chart only underfood reprefent to Circles of Globe in fitions, an the Truth Superficies Ule of M are reprefe of Longi Rhumbs, the Magn fented as may be es or by a c Protracto feveral C of the M Terreftria in the $m$

As the Sine Comp. of the Counte 5x ${ }^{\circ}$ O Is to the Diff, of Latitude 1200 miles -- $\quad 3.079151$ So is Radius
To the Diftance 1414 milcs $\quad-\quad 3150+15$

And in fuch a multiplicity of Errors and Falfitics on the Plain Chart, no wonder if the Mariner is often in a Maze; fometimes imputing his being out in his Reckoning of the Ship's Way to bad Stecridge, Lce way-Currents, Variation of the Compats. EOc. whilft it is very likely the greateft Faule of all is in his Plain Chart, which lie leaft of all fulpects. This Evil will be in great meafure remedied, Would Mariners lay afide their Plain Charts, and make ulc of the Mercator Charts or Globular Charts only. The Mercator's Chart, notwithftanding it doth not exhibit to the E.je a true Reprecentation of the Surface of the Earth, nor of the Circles of the Sphere, the Desrecs of Latitude on that being unequal which are equal on the Globe, the Degrees of Longitude on that being equal which are unequal on the (ilobe, the Rhumbs on that beins: Right-Lines which are Curves on the cilobe, and the Magnitudes and Diftances of Places thereon being reprefented to the Eye much larger than they really are, yet neverthelets the Mercator's Chart is an excellent Invention; Places thereon may be laid down in their true Latitudes and Longitudes, and the Bearings and Diftances of Places thercon accurately cnough meatured by a parricular Metiod ulually taught : But the fame being a diftorted Reprefentation of the Superficies of the Terreftrial Globe, which, tho intelligable enough to Mathenaticians, yet is not to to Pertons of finall Capacities; and there not being any common Scale thereon whercby the Diftances of Places, or a Ship's Way, may be meafured or laid down as on the Plain Charr, hath cauted moft Mariners to neglect the fame, and to make ute of the Plain Chart only, which they judge more ealy to be ufed as well as underftood. Thele Globular (ibarts therefore are defigued to reprefent to the Mariner, in as caly a manner as polfible, the Circles of the Terreftrial Globe, and the !everal Places on the Globe in their due Magnitudes, Latitudes, Longitudes, Pofitions, and Diftances from each other, and that as near to the Truth as it is poffible for finall Portions of a fpherical Superficies to be repretented on a Plain: near enough for the Ule of Mariners. On which Charts the Degrees of Latitude are reprefented Equal, as they are on the Globe; the Degrees of Longitude Unequal, as they are on the Giobe; the Rhumbs, Curves or Spiral-Lines, as they are on the Globe: the Magnitudes and Diftances of Places thereon duly reprefented as on the Globe, and the Diflances of Places thereon may be eafily mealured by help, of the Graduated Meridian, or by a common Scalc of Equal Parts, on the Charts. The Protractor applied to the Chart for laying down a Ship's feveral Courles thercon, is no more than a Repretentation of the Marincr's Compals paffing over the Surface of the Terreftrial Globe: The Whole is only a following Nature in the moft fimple and ealy manner, and obvious to the meancf Capacities.

But on the Terreftrial Globe the Courfe will be N. $31^{\circ} 56^{\prime}$ Eafterly, or N.E. by N. neareft, and the Diftance 1414 Miles, 2. c. the Courle will be reprefented on the Plain Chart $13^{\circ} 04^{\prime}$ more than it is, and the Diftance 283 Miles more than in truth it is. Sce the Arithmetical Computation.

reprocit: Circles of Globe in fitions, at the Trutl Superficic Ule of M are repref of Long Rhuinbs, the Magn fented as may be e or by a c Prorracto feveral C of the M Terreftria in the $n$ meaneft C

## E $\quad \mathrm{R} \quad \mathrm{R} \quad \mathrm{A} \quad \mathrm{T}$

The Letter $a$ denotes the firf, and $b$ the $f$

PAge 3 . in Tit. dele Pari I. P. + a, 1. 4 . place the : after Nefs. P. $5 a$, 1. i6. for Lazad r. Sands. 1. 35. dele about ; Miles. P. 25 b, 1. it. r.S.E. P. $=7 b, 1.43$. r. that Depth. P. $57 a, 1$. 4. r. .Aviero. Ib. $b$, l. ro. r. S.W. P. 58 a, 1. a i. r. Xeres. P. 60 a, 1. 15 . from bot. r. Majorca. P. 69 a, 1.17. from bot. r. Room. P. $7=a, 1$. 16 . from bot. r. Eingia. P. 73 b, 1.7. for Pababera r. Bubabora. P. 78 a, 1. 32 r. 88 L. P. 83 b, 1. 26. r. Fortaliza. P. $8+b, 1.6$ r. for is r. it. P. $8, b, 1$. 24 . from bor. after Stoals add or Baxos. P. 8, b, 1. \%. from bot, r. the Lee. P. 89 b, I. g. from bot. r. Fort. P. 90 6, 1. 42. for Fanuary' r. March, and for May r. Auguft. P. 9s a, 1. 37. r. Coaft as. Ib. $4,1.9$. from bor. r. Frio. P. $964,1.34$. from bot. put the; afier it. 1. 2 3. and 18 . from bot. r. Zocctra. P. 97 i, I. 8. from bot. for Point r. Port. P. 99: the Paragraph in Col. 2. beginning Mount Fctix, , hould be put in before that in Col. 1. beginning Aden lies. Y. 101 a, 1. 19. r. any directed $C_{o w r f i e . ~ 1 . ~}^{2}$ 1. from bot. r. Sinda. 1. 17. from bot. for 20. r. 2. Y. 103 a, 1. 1. r. Cccleen. P. ıc8 b, 1. 12. from bot. r. over to. P. 109 a, I. I, \&c. r. Gomingin. P. 1is a, 1.23. r. Bandermofen, 1. 24. from bot, r. bhat Po.

Sition. P. 11 r. Hell.Gat. P. $1 ; 6 \mathrm{l}, 1$. trance. P. dido. P. $\mathbf{I}$ pofite to. P The fame in r. Le Maire from bot. r. expeCted. P. $182 a, 1$. 1. 2I. from 1. 19. from b lb. $b$, I. 40. to New Spa d. $S . r_{1} 17 a$
repretent to the Marmer, in as ealy a mamer as polible, the Circles of the Terreftrial Gilobe, and the leveral Places on the Globe in their due Magnitudes, Latitudes, Longitudes, Pofitions, and Diftances from each other, and that as near to the Truth as it is poffible for limall Portions of a jpherical Superficies to be reprelented on a llain; near enough for the Ule of Mariners. On which Charts the Degrees of I.atitude are reprefented Equal, as they are ontac Globe ; the Degrees of Longitude Unequal, as they are on the Globe ; the Rhumbs, Curves or Spiral-Lines, as they are on the Globe: the Magnitudes and Diftances of Places thereon duly reprefented as on the Globe, and the Diflances of Places thereon may be eafily mealiured by help of the Giraduated Meridian. or by a common Scale of Equal Parts, on the Charts. The Protractor applied to the Chart for laying down a Ship's feveral Courtes thercon, is no more than a Reprefentation of the Mariner's Compals palling over the Surface of the Terreftrial Globe: The Whole is only a following Nature in the moft fimple and ealy mamer, and obvious to the meaneft Capacities.

## $\mathrm{R} \quad \mathrm{R} \quad \mathrm{A} \quad \mathrm{T}$ A.

the firft, and $b$ the fecond Column of the Page.
F. P. sa, iI. r.S.E. 1o. r. S.W. 69 a, 1.17 $b, 1.7$ for Fortaliza. als add or oot. r. Fort. 95 a, 1.37. n. put the; t. for Point ould be put $2 y$ directed P. 103 a, a, 1. i, \&c. r. that $P_{0}$

 P. $136 b, 1.41$. dele the full point after seay; and put a full point afrer $t / 2$ -
 dido. P. $145 \mathrm{a}, \mathrm{l}$. 3 3. for dos r. los. P. $147 \mathrm{a}, \mathrm{l}, 17$. from bot. for at r. cp pofite to. P. i48 a, 1. 49. r. the Coaft. P. 156 a, 1. 10. from bot. r. Raq"i' The fame in Col. 2. P. 157 a, 1. 13. r. llsk. P. 101 a, 1.12 from bor. r. Le Maire. The fame in Col. 2. P. 165 a, b. 57 r. b. but. P. 169 a, l. 3 : from hot. r. I/ands. 1. 10. from bot. r. 58 d. P. 169 b , 1. 12 . dele all after expected. P. $171 b, 1$. 35. r. Limare. P. 180 $11,1.12$. from bot, deic then. P. ${ }^{182} a, 1.25$ from bot. r. Line in biand. P. 189 b, 1. 35 . r. terminates it. 1. 21. from bot, r. out at Sea. P. $188 a, 1.46$. for from r. inito. P. $189 b$ b, 1. 17. from bot. r. Champian. P. 190 a, 1. 5. r. Plantations. 1. 8. r. Tiago. Ib. $b$, I. 40 put a, after furrher. P. 192 $b, 1.16$. from bot for back azain to New Spain, r. and back again thither. P. 199 a, 1. 子. from bot. for is d. S. r. 17 d. No and S. P. $19+b, 17$. r. gma: Iflems.


# DIRECTIONS 

F R O M

## Mouth of the River of Thames,

 GREATBI
## P A R T

## From the Sand call'd the Spitts in the Mouth of $t 1$ Suffolk, and Norfolk, to Winterton-Nefs, an

[N. B. Pilots being always taken to fail up and dowin the Thames, Spitts on the North-fide, and at the Downs on the Soutb.


HE Spitts is a Sand on the North-fide of the River, and on the Coaft of E\|fex, between the Entrance into Malden Water Weft, and Colchefler Water Eaft, going down the King's Channel: and being to fail into Harwich, or to the Rolling Grounds off of Harwich, you go over the Spitts into the Wallet.
The Wallet is a clear part of the River lying within the Gunfleet, and between all thofe Sands about the Gunfleet, and the Shore of E/fex.

The Buoy of the Spitts lics in hhoal Water, fo that you muft be careful to obferve the Tides in going over it into the Wallet : At low Water, there is but five to feven Foot Water, and not always a like Depth.

Being in the IVallet, you have deep Water, five to eight Fathoms, and good clean Ground to the Naze, Ealt-NorthEaft.

The Naze is a high Point of Lar 1 E.N.E. from the Wallet; 'tis known by a new round Building of Brick rais'd upon it for a particular Mark: It is as high as a Light-houfe; tho it is not made ufe of as fuch, only as a Sca-mark to know the Naze and other
S.

N
fid
ha
$a b$
S.
ald
ald
th N $B$


# ONS for SAILING 

## $\mathrm{R} O \mathrm{O} \quad \mathrm{T} \quad \mathrm{H} \cdot \mathrm{E}$

## of Thames, round the whole Illand of EATBRITAIN.

## PARTI.

## the Mouth of the River Thames, along the Coaft of Effex,

 rton-Nefs, and from thence to the Orkneys in Scotland.d down the Thancs, we do not take that River into our Work, but legin at the owns on the South. And the fame may be obfirv'd of all other navigable Rivers.]

North-fide of the Effex, between ater Weft, and ing down the to fail into Har unds off of Harinto the $W$ allet. ying within the he Gunficet, and
ter, fo that you b over it into the feven Foot Wa-
$r$, five to eight $z e$, Eaft North-
rom the Wallet ; is'd upon it for a ho it is notmade Naze and other fiurrounded.weith

The Flood at Spring. Tides makes into the Harbour from the S. and rifes $2 \frac{1}{2} \mathrm{Fa}$ at lcalt; at Neap-Tides io to in $_{1}$ Fooi.

Sailing from Harwich, or from the Rolling Ground to North, you are to kecp the Sufiolk Coaft on your Larbo. fide, gencrally at the diftance of half a Leaguc to a League a. half, as by the following Directions.

Suppofing your Ship bound to the N. from the Wallet, as above, or from the Gunflect. The Buoy of the Gunfleet. lics S.E. by E. eafterly from the Naze; your Courfe to the N. is along the S.E. fide of the $W e f /$ Rccks in 7 to 8 Fa. Water into the Sledway, kecping Balfey or Baudjy Church N.W. and N.N.W. till you bring Harwich Steceple on the Languard-Fort Brewboufe': Then go away W. kecping Orford 'Clourch and Caftle open of Balfey Cliff about a Sail's breadth, till Harwich Lights come together. Here you may ftand in for Harwicb if you pleate, taking a Pilot as before. But in this Courfe to go N. you mult pals by Balfey Sand; and the shipwalh, which lies without it.

Balfey Sand lies a L. from Shore, ftretching in length N.N.E. and S.S.W. To pals by the $\mathbf{N}$. end of it, bring Orford Cidfle between N. by W. and N.N.W. and Orford Ligbt-boulic N. $\frac{1}{2}$ E.

The Entrance mo dratact IV ater Weft, and Colchefler Water Eaft, going down the King's Cbanucl: and being to fail inte Harwich, or to the Rolling Grounds off of Harwich, you go over the Spitts into the $1 V$ allet.
The Wallet is a clear part of the River lying within the Gunfleet, and between all thofe Sands about the Gunfleet, and the Shore of E/fex.

The Buoy of the Spitts lies in fhoal Water, fo that you muft be careful to oblerve the Tides in going over it into the Wallet : At low Water, there is but five to feven Foot Warer, and not always a like Depth.

Being in the Wallet, you have deep Water, five to eight Fathoms, and good clean Ground to the Naze, Eaft NorthEaft.

The $N a z e$ is a high Point of Land E.N.E. from the Wallet; 'tis known by a new round Building of Brick rais'd upon it for a particular Mark: It is as high as a Light-houle; tho it is not made ufe of as fuch, only as a Sea-mark to know the Na:氵e and other Places. The old Mark was a Farm-Houfe furrounded with Trees; but this new Building is fet up by Authority for a Scamark, as above.

The Courfe is Eaft by North under the Naze, Diftance about half a Mile or a Mile; come no nearer, becaufe of a Stone Eank which lies from the Naze Trees, as above, E. by N. a Mile and half from the Point. There is one Fathom and a half between that Bank and the Naze at low Water.

The Marks for the Stone Bank are thus. (i.) Bring Panes Trees, which lie a iittle to the South of Harwich, open and fhut with Harwich Cliff, and you run directly for the Bank: Or, keep the Trees on the Cockfand jult open of the Nazeland-Point, that will do the fame: Or, keep Har--uch Sterple on Harwich-Bcacon-Cliff, and that carrys you berween the Stone Sum and the Land of the Naze: And the fame Mark cariies you between the Pye and the Ridge into the Relling Ground.

The Rolling Ground is a fafe Road, and good anchoring in ; to + Fa. at low Water. Bring Harwich Wind-mill two sails breadth open of Harwich, Cliffs, that gives you the beft place to anchor in the Rolling Ground.

The light Colliers going to the $N$. generally keep from the Naze between the Cockfand and the Ridge; which is done by kecping the Naze Trees S. W. and the Courfe N. E. in ; to 7 Fa. Water.
N. $B$ You are clear of the Cockfond, when you fee Har. wich Stceple over the Brcw-boufe on the N. of Lan-guard-Fort.

Harexich is a very fafe Harbour when you are in, but the Entrance nice and difficult. Therefore Strangers and loaden Ships, bound into Hal wich, come to an Anchor in the Rolling Ground; and making the ulual Signal, the Pilots come off to bring them in.

Si
Nort
fide,
half,
Si abov S.E. alon the N.N Bre C'aft wich wic Cour walh $B$ and betw
$r$ weft, and down the ail intc Hars off of Har o the Wallet. g within the Giunflect, and
fo that you ver it into the en Foot Wa-
ive to eight Eaft North-
a the Wallet; upon it for a it is not made $: z e$ and other ounded with rity for a Sca-
)iftance about fic of a Stone ove, E. by N. fathom and a ter.
(1.) Bring arwich, open rectly for the juft open of r, keep Harlat carrys you $z e:$ And the e Ridge into anchoring in ind-mill two ves you the
eep from the hich is done urfe N.E. in
you fee HarN. of Lan-
c in, but the and loaden in the RolPilots come

Sailing from Havwich, or from the Rolling Ground to the North, you are to kecp the Suffolk Coalt on your Larboardfide, generally at the diftance of half a Leaguc to a League and half, as by the following Dircctions.

Suppofing your Ship bound to the N. from the Wallet, as above, or from the Gunflect. The Buoy of the Guntleet Iics S.E. by E. eafterly from the Naze; your Courfe to the N. is along the S.E. fide of the $W_{c j} / t$ Rocks in 7 to 8 Fa . Waret into the Sledway, keeping Baljey or Baudfy Church N.W. and N.N.W. till you bring Harwich Stecple on the Languard-Fort Brewiboufe: Then go away W. keeping Orford Clourch and Cafle open of Balfey Cliff about a Sail's breadeh, till Harwich Lights come together. Here you may fland in for Hirwich if you pleafe, taking a Pilot as before. But in this Courfic to go N. you mult pals by Balfey Sarid; anc the shipwa/h, which lies without it.

Balfey Sand lies a L. from Shore, ftretching in length N.N.E. and S.S.W. To pals by the N. end of it, bring Orford Cafile between N. by W. and N.N.W. and Orford Light-houfic N. $\frac{1}{2}$ E.
N.B. This End of the Sand lies five Miles from the Shore, and fome part of it is dry at low Water.

Shipzalh Sand lics without Balfey, and without the 1 Whiting alfo : It ftretches N. by E. and S. by W. about ninc Miles in length, and not above a quarter of a Mile broad, except at the S. end, where 'tis a litele broader: Tis dry at low Water in feveral Places. The Marks for it are thus: For the S. end bring Balfey Cburch N.W. $\frac{1}{2}$ W. difance 8 Miies ar lealt : For the N. end, bring Orford Church N.W. and the Light-/boufe N.W. half W.

The Whiting Sand lies N E. by N. and S.W. by S. in lengels about five to fix Miles. The Marks fot the S. end are, Balfey C/burch bearing W. by S. and W.S.W. for the N. end, Orford Caftle bearing N.W. and by N . in ${ }_{5} \mathrm{Fa}$. Water.
$N . B$. There are good Soundings on both fides the Whiting, fo that you may go within or withour it at pleafure.

In this Courfe you pafs by Woodúridge Havent; it lics juft at the W. end of Balfey Cliff. It is a very good Haven, but a difficult and uncertain Bar, with not above threc or fous Foot Water at low Tide ; and the Sand at the Entrance often thifts, fo that you may know the Bar at one rime, and not find it at another. The Pilots are always ready at the Cliff to carry you in. The Haven, when you are in, runs up to "Mod bridge Key 8 or ? Miles, very lafe and decp Water: The Water flows at Woodbridge Bar 15 to 16 Foot at Sping-Tides, the Springs flow S. and S and by E.

There is Hofely Bay withia alll thefe Sands, which lies fair for Ships from the N. going into Hawich or "oodiridice. It is a very fecure Road, good clean Ground, and fate anchoring. Ships from Holland, bourd in for Harwich, offen come to an Anchor here to wait for the Flood.

## Directions for failung from the Thames

From the Mouth of the Thames to Hofely Bay you go thro' the Sledway, and thence between Balfy Cliff and Baljiy Sand as above; and thence being bound to the N.ward, you keep all along the Beach : to Orford-Nefs you have good Sounding, and 7 to 8 Fa. all the way, with room enough to turn it down or up.

Orford-Nefs is a low Beach pointing into the Sca E. balf a Point N. having two Light-houles on ir. The $N e / s$ is not feen far, but the Church and Caftle are Marks at a great diftance, being feen 6 or 7 Ls to Sca. The Whiting Sand lies right off, but the Paffage within is fair and good. There were formerly two fmall Sands lying between the $N e / s$ and the $W$ biting; but they are worn out, and quite gone: So that now you have decp Water all the way thro'; bringing Orford Lighthoufes together in one, carrics you off to Sea between the Shipriath Saind and the Aldbro' Kuaps.

Aldbro' Kias.s lics due E. from Aldbro' Cluurch; 'tis a fmall round Sand diftant from the Shore aimoft 2 Ls , deep, Water from 5 to 12 Fa and without the Sand from $\mathrm{I}_{2}$ to 16 Fa . but upon the Sand not above 2 Fa . to $2 \frac{1}{2}$. You go clear of this Shoal by bringing Orford-Churbs and Caftle in one.

Dir 7 ions for crofling the Moutb of the Thames, from the Spitts to the North Forcland, or to the Downs and Dover Road.

If inftead of going to the N.ward, you are bound from the Effex Coaft, fuppofe from Colchefter Water or any other Port thercabout, to the Downs, or to the North Foreland.

Being at the Spitts, keep the Shoalings of the Gun-Fleet in 7 to 8 Fa. till you bring the Naze Tower N.N.W. then go away NE.byE. and E.N.E. till the $N a \approx e$ 'Tower bears W. by N; then keep more Eafterly rill you get into 17 to 18 Fa. that you may go clear of the Long Sand Head and of the Kentilh Kinock: but keep your Depth, and go no hoaler : then fteer S.SW. if with the Ebb, or SS.E. and S.by E. or S. as the Tides are ftrong or weak, and you will foon fee the foreland. The Kchith, hnock bears from the Church of St. Peters on the Foi claid N.N.E. Eafterly: You will fee the Foreland from the Kentifh Knock, but not from the Long Sand Head, unlets the Weather be very clear.

> N. B. The Long Sand Head lies from the Naze E S.E. and S.E.by E. diftance 5 Leag.

If when you are clear of the Gunfleet in 17 Fa , as above, you would not go into the Wowns, or to the Foreland, but go away to the W.ward on the back of the Goodwin, you mult then ftecr away more Eafterly, till you get 26 to $3 \circ$ Fa. thengo away S. or S. by E, kecping the lame Depth of Water, till you bring the two south loveland Lights together, or till

Leofsiff, on other a fmall

When the Northerly : come into Shore; then and when the are upon the have but 2 Fa
$N . B$.
Fa. ot Leoftc

There is a Home and th is narrow be good, and yo Standforth, away to the

If you mee turn from $L$. rowards the the Home in Beach and th wards the $H d$ forth; be fu after you are nel into the P

The Have little above Gat, which Knowle.

But as ther and that no $S$ give Directio

Being in th $N e / s$, keep cl Lights ftand: thote Lights Cable's leng Beach, tull y morc. Tho to fail out at

There is the Paflage; Buoy on the and which c

There ar Sandbills at guide Ships

## $n$ the Thames Northward.

Leofiff, one on a Hill to the N.ward of the Town, and the other a fmall one on the low Beach clofe by the Sea-fide.

When thefe two are brought into one, they bear N.N.W. Northerly: then you may run boldly in with them till you come into 3 Fath. and within a Cable's length of the Shore; then go away to the N.ward almoft clofe to the Beach; and when the higheft Iight bears W. by S. from you, then you are upon the Standfort/) in the fhoaleft part, where you will have but 2 Fa . to $2 \frac{1}{2}$ at low Water.
> N. B. The Tides do not rife here above one Fa. or one Fa. one Foot. If it be low Water,' tis beft to anchor in Leoftoff Road till the Flood.

There is another Sand call'd by two Names alfo, viz. the Home and the Curton, but 'tis the fame Sand. The Channel is narrow between the Beach and this Sand ; but it is very good, and you hive : $:$ clofe to the Home. Being over she Standforth, you niu us uetween the Home and the Beach clear away to the Roads.

If you mect with Northerly Winds, fo as you are oblig'd to turn from L:offoff to the Roads, you mult then firt ftand in towards the Newicom into 4 Fa. Water, then into the Head of the Home in S Fa. and then fland over again between Leoffoff Beuch and the Home towards the Beach in 3 Fa. then again towards the Home into ${ }_{7} \mathrm{Fa}$. when you will be over the Standforth; be fure to keep your Lead going in this Paffage: but after you are over the Standforth, you have a fair turning Channel into the Roads.

The Haven of Yarmouth crecrs on the S. of the Town, a little above Corton; and 1 a e er you muft pafs St. Nicbolas Gat, which is a Chann:- w en Corton Sand aud the Knowle.

But as there are always Pilots ready at the Pier to come off, and that no Ships go in without their Affiftance, 'tis needlefs to give Directions her:

Being in the Roaci, andbound to the Nward by Wintertor: Nefs, keep clofe by the Shore to Caffer Lights, which are two Lights flanding beyond the Town N. near the Sea fide. Keep thofe Lights together all the way, till you come within half a Cable's length of the Bear? ; and keep to going on by the Beach, till you come off oi $\ddot{y}$ interton, where are two Lights more. Thofe you mult bring together, and keep them in one, to fail outat the $\mathrm{Ne} / \mathrm{s}$.

There is: Spit of Sand which lies off from the middle of the Paffage; the Channel is narrow but good: and there is a Buoy on the Sand which you mult leave on the Starboard fide, and which carrics you clear out.

There are two more Lighthoufcs beyond $W$ interton on the Sandbills at the $\mathrm{Ne}_{\mathrm{c} / \mathrm{s} \text {; they are low, and are placed there to }}$ guide Ships to keep clear of the N. end of the Sand called the Middle: whercas the other two Liabrs of /Vintewen Town

Tides arcftrong or weak, and you wilf foon lee the Foreland. The Kenti/h Knock bears from the Church of St. Peters on the Forclaid N.N.E.Eafteily: You will fee the Foreland from the Keriti/h Knock, but not from the Long Sand Head, unlels the Weather be very clear.

> N. B. The Long Sana' Head lies from the Naze E S.E. and S.E.by E. diftance 5 Leag.

If when you are clear of the Gunfleet in ${ }_{17} \mathrm{Fa}$, as above, you would not go into the $\mathfrak{D o w n s , ~ o r ~ t o ~ t h e ~ F o r e l a n d , ~ b u t ~}$ go away to the W.ward on the back of the Goodwin, you muft then fteer away more Eafterly, till you get 26 to 30 Fa. thengo away S. or S. by E, keeping the tame Depth of Water, till you bring the two South Foreland Lights together, or till you bring the Land of Dover open of the South Foreland, that will carry you clear of the South Sand Head.

From Orford-Ne/s, being bound to the Roads, you keep under Shore due N. 4 Miles to Aldbro' Bay, being a ftony Beach, deep Water, very good Shoalings: You have alfo good anchoring before the Town in 5 to 7 Fa . from OrfordNe/s to Leofioff; the Shore lies N. by E. Here is neither Recf or Ridge, Rock or Sand, but a bold Shore, and Shelter cicry where in cafe of hard Weat ir

Sole, Swole, or Sout beould Bay 1:, a this Space, famous in Srory for a great Sea Engagement between the Englifh and Dutich. A little S. of Swolle goes in a Creek, which divides as foon as you are oycr the Bar into three: the N. Branch muns by the Town of Swole, the S. Branch to Dunwich, and the middle which is the beft to Walders Wyck. This Creck receives finall Vcffels only: 'Tis diftant from Orford-Nefs 4 L.

Stcering from Soutbu'outd to Leoftoff, you mult be fure to keep without a fimall Sand with two Names, call'd the Bernard and Newicom, tho they are but one and the fame Sand. Small Veffels in good Weather and at high Water may go within; it lies but a little Mile from the Shore: it runs from Caty Ne/s to 'Peakfield; the S. end is call'd the Bernard, and the N. end the Newcom; they have but 3 to 4 Foot at Low Water: the Shoalings are good, but you thould keep off in 4 to 5 Fa at leaft.

North from the Knaps, and S E. from Leoffoff, lies the Red Sand about 2 Miles in length N. N. E. and S. S.W. 'tis a narrow Sand not above a Cable's length over, from 2 to 3 Fa. upon it, but 15 to 16 Fa. between the Sand and the Shore, for 2 I.s in breadth; for fo far it is from the Shore. When you have Leofloff Church about 2 Sails breadth upon the S. end of the Town, you are upon the flooaleft part of the Sand. It bears from S'wole N.E. by E. and from Gunton Wood S.S.E.

Between Lcoftoff and the Roads is a Sand they call the Standforth, or Standford, being as it were the firlt of the Sands "hich makes thofe Decps they call Yarmouth Roads. To pafs in there, you are to oblerve, that there are two Lighthoufes at

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bemg in the koads, andbound to the Nward by Winterton $N_{e} / s$, keep clofe by the Shore to Cafler Lights, which are two Lights ftanding beyond the Town $N$. near the Sea fide. Keep thole Lights together all the way, till you come within half a Cable's length of the Beach; and keep to going on by the Beach, till you come off of Winterton, where are two Lights more. Thofe you mult bring together, and keep them in one, to fail out at the $\mathrm{Ne} / \mathrm{s}$.

There is a Spit of Sand which lies off from the middle of the Palfage; the Channel is narrow but good: and there is a Buoy on the Sand which you mult leave on the Starboard fide, and which carries you clear out.

There are two more Lighthoufes beyond Winterton on the Saudbills at the Nefs; they are low, and are placed there to guide Ships to keep clear of the N. end of the Sand called the Middle; whereas the other two Iights of Winterton Town are high, and feen 4 or 5 I.s off at Sca. Winterton Sreeple is a high fquare Tower, and is allo feen far at Sca.
$N . B$. The Tides flow at Winterton not above 6 or 7 Foor, and make half Tides on the Shore; for it runs in at the Nefs three hours after it is high Water off hhoar. Note, It is very narrow turning in and out at the $\mathrm{Ne} / \mathrm{s}$.

If you are bound to the N.ward, and minded not to go thro' the Roads, take the following fhort Directions.

Being off of Lcofloff, and if you would fail without the Sands, keep about 4 or 5 Miles off of the Standforth in 12 to 16 Fa. that carries you to the back of the other Sands. Alfo the Southermoft part of Yarmouth Sands is the Home Head againft Leofloff, and the Northermolt is the Middle at $W$ interton $N_{e} / s_{s}$. The Home and Corton are one Sand, the next is the Knowle; all which are one Sand. There are fmall Swatches over them, which are made ufe of by the Filhermen, but great Ships will not venture thro' that way. The next is the Cockle and the Middle: The Cockle lieth between the Calves Knowle and Cafter; fome Places of thefe Sands are dry at low Water: Being on the back of the Sands, you may keep 4 or 5 Miles from the Shore of Yarmouth in from 12 to 16 Fa . Water, which will carry you between Yarmouth Sands, and the Newark Saud.

The Banks which lie off from Winterton and beyond the Leman Ore, are called the Well-bank, the White-water Bank, and the $\mathcal{D}$ ojger Bank. As they lie all over towards the Coaft of Holland, and have no where lefs than io Fa. Water on them at low Water, they are needlefs to be deferibed as on our Coalt ; there being allo no danger of Ships mifcarrying upon them for want of Water.

The reft of the Sauds call'd in general Carmoutio Sands, and which make Yarmouth Roads, are four, the Newark, the Oveirfalls of Newark, Husbro' or the 'Vrrcy, and the Leman Ore', or the Leman and Ore.

The Newark is a Sand that lieth to the E.ward of Carmouth, and the S.end drieth at low Water, which end lieth from Yar-

## Dircitions for Sailing from the

mout/b Stecple E. halfN. ${ }_{3}$ Ls. and the N.E. end bears N.E. half E. from the fame Stecple, and E. half N. from IVinterton Light, dift. about 2 Ls. and a half. There is a broad Channel between Y'armouth) Sands and the Newark, the narroweft place being between the N.end of Nowark and the Calves Knowle, Which is 4 Miles, and 16 to 18 Fa. between them. This Sand commonly fhews it felf by the Sea breaking on it at high Water ; it lieth N.W. by N. about 4 or 5 Miles long: and beyond lie thofe dangerous places which they call the Ozerfrulls of Newink.

They lic N.E.from the N.cnd of Newark, ftretching fill farther N.E; having at one place, which is the middle, but 3 Fa. and fo decpens towards cach end to 7 and 8 Fa. You have 19 and 20 Fa . Water clofe to them : They lic from the Lights of I/'interton N.N.E about half E. 4 or 5 Ls. I am told there are more Banks and Overfalls to the N.E. of Yarmouth Land, on which is about 2 Fa. and a half; but I have no authentick Ground for it.

Hafibro', or the ©Urrey, is a Sand that lieth 8 Miles from Winterton Nefs. N.E. and S.W. about ${ }_{7}$ Miles in length, and very narrow. On which there is but 6 to 8 Fa. at low Water. The N.E cod bearech from /Wiuterton Church N.E. by N. 8 Milcs, and the S.end beareth from Hasborough Church N.E. half N . about 6 Miles off. This Sand is fecp too, having 20 and ${ }_{2} \mathrm{Fa}$. clote by it on the infide and outfide; but the ends lic off hioal, 4 to 7 Fa .

The Leman and Oar, or Ower, are two very dangerous Sands; on the firft of which the Gilocefter Frigate was lott : This is the innermoft, and is the longeft of the two ; it is called the Leman, the Body of which licth from Hafebrough N.E. by E. about 8 or 9 Ls. This Sand licth in lcngth N.W. by N. about 6 Miles, and at dow Water hath not above 6 to 8 Foor Water. This Sand alfo is Ifcep too, having 22 Fa. clofe to it. The $O$ wer lieth 2 or ${ }_{3}$ Miles without the Leman, N.W. by W. about ${ }_{3}$ Miles; on which is 9 Foor at low Water, and is ficep too, having 22 Fa. on cach fide of it, and 22 Fa. betwecn the two Sands. At the cads of the Ower you will have $3^{\text {to }} 7$ Fa. a Cable's length off, and then is to 22 Fa. If you kecp a fair fight of the Land you will run within it ; for I could not fee the Land from the Mafthead of a Yacht, when I rid at anchor clote by the Leman; but being at anchor 3 or 4 Miles within the Leman, I faw the Church and Land of Hafibrougls. The diftance between this Sand of the Leman and Hafibloungh Sand is 6 Ls. and the depth between them 19 to 22 Fa. to that there is breadth enough to avoid them, if you are not driven out of your Knowledge by Storms, or in the dark.

There is another great Sand beyond the Leman and $O w e r$, which however is needful to be known for many Reafons, yct is not thoal cnough to do any hurt ; and this is calld Well Racnk. The S.E. part of it bears from Winterton Nefs N.E. albont $1+$ Ls. The N.W. part of it bears N. by E. 17 Ls. and 3 from theLeman and $O$ Oiver; it licth N.E. and S.W. about 21 Ls'. in lengeth, and in breadth N.W. andS.E. 12 Ls. at Jeaft, at the S.W.
the gr will le and $P$ way is yct 'tis

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## ling from the Thames Noribward.

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y dangerous ce was loft : two ; it is Hafibrough cugth N.W. bove 6 to 8 22 Fa. clofe man, N. W. ater, and is Fa. between u will have to 22 Fa . within it; of a Yacht, ig at anchor and Land of Leman and em 19 to 22
if you: are n the dark. 3 and $O$ wer, ny Realons, calld Well - $N_{c} / s$ N.E. ${ }_{17}$ Ls. and 3 about 2 I Ls. , at the S.W.
will fee the firft Buoy of the Channel at the S.end of the "fole and Piper, a Sand on the W.fide of the Channel: The tair way is between the Buoys, but far in 'tis dry at low Water; yct'ris a place of much Trade and Shipping for Corn and Coal.

Three Is. to the Weftward lies Wells, another Port for Corn. Between them, rumning along the Shore, lies the Sand called th: Pole and Piper (as above) there is alfo a Shoal juit off the Enrrance into the Channel of $W^{\prime} c l l s$, without any Name; it runs far out into the Sca: the Channel gocs in at the W. end or this Sand, and the Beacons which you lail by and guide into the Haven, are on the outer edge of the Piper. When Hobroom bears E.S.E. from you and the Trecs ftand ayainit the Steeple, then you are in the fair way or Channcl. This allo is a Tide Haven; nor is there any very good Road without.

Two Ls. beyond Wells is Burubsam, another Tide Haven, In the Midway lies Burnbaw Flatts, a broad Sand lying about a L. from the Shore, and much of it dry at low Water. Under this Bank is the only Road hereabour, where you may ride in 5 to 6 Fa . good Ground. At high Water finall Ships go over it ; the Shoalings on the N.fide are good, and you may run boldly to it within 4 to 5 Fa . but come no nearer, and kecp the Lead going; on the inner fide 'ris fteep and dangcrous. As foon as you are over it, you have 7 to 12 Ha and the Channel within is late from Eafterly Winds, which are the worft on this Coaft. If you would go into Buribam, come to an anchor here, and take a Pilot.

Here and at Wills they take Pilots alfo for Lyn, Boflow, and Spalding, which are all fuch difficult Channels, that very few Ships venture in withour Pilots.

From Burnbam the next Place is Chapel Land W.S.W, diftance 5 Ls. Between them is a Sand calld the IVoolpack, lying E. and W. about a Mile from the Shore : 'Tis belt keeping without it: There is a Buoy on the outer Edec of the Sand. There is allo a Light-houle at Chafel, but no Harbour to the Northward. Oft of this Point lics a Sand call'd the Sunk, diftance from the Point 2 Ls. It lies dry at low Water, and there is a good Channel cither within or without.
> $N$.B. Here begins the Entrance into the Channels calld Lyn' Decps; and here allo Pilors are raken for carrying Ships up cither to Lyn or Spulding, W'isbech, or Bolton; Which being fufficient, we need not deferibe thele Channels avd Sands, which are almont numberlefs.

From the Coalt of Norfolk to the Coaft of Lizizolithire, leaving $L y n$ and Bofton De'ep to the S.W. and S.W. by W the firt Land you make is the high Grounds within Lever Ne/s. From whence to the Mouth ot the Humber is 7 Ls the Courle N.N.W. In the way, about a L. thort of Humbir, is Saltfleet Haven ; and a litrle to the Southward of Sandflect is a Spire Stceple call'd Wigigrip. Thwart of Sanditicet, a litele to the Northward of the Snire is a Sand calide Sand
mecp too, hiving $=2$ Fa. on cach fide of it, and 22 Fa. between the two Sands. At the ends of the Ower you will have $3^{\text {to }} 7$ Fa. a Cable's Iength off, and then is to 22 Fa . If you kecp a fair fight of the Land you will run within it; for 1 could not fec the Land from the Mafthead of a Yachr, when 1 rid at anchor clofe by the Leman; but being at anchor 3 or 4 Miles within the Leman, I faw the Church and Land of Hafiebrougls. The diftance between this Sand of the Leman and Hafibrough/ Sand is 6 Ls. and the depth berween them 19 to 22 Fa. to that there is breadth enough to avoid them, if you are not driven out of your Knowledge by Storms, or in the dark.

There is another great Sand beyond the Leman and $O$ wer, which however is needful to be known for many Realons, yet is not thoal enough to do any hurt; and this is calld $/$ Well Radnk. The S.E. part of it bears from IWinterton Ne/s N.E. alont $1+$ Ls. The N.W. part of it bears N. by E. 17 Ls. and 3 from the L.cman and ()wer ; it licth N.E. and S.W. about 21 Ls. in lengrh, and in breadth N.W. andS.E. 12 Ls. at leaft, at the S.W. cad, which is the broadeft ; but the N.E. end grows narrowcr : There is on this Bank from ${ }_{13}$ to ${ }_{17} \mathrm{Fa}$. Water, and 22 to ${ }_{24}$ Fa. between the Leman and Ower and this Sand; and from $24^{\text {to }} 2 \$$ Fa. between it and the Togger Bank diftance 6 Ls.

The 'Dosger Bank liech between the Well Bank and the Broad Fourtecns, flretching over to the Coaft of Holland; fo that it is out of our way hcre. It lieth N.E. and S.W. about 1o Ls. in lenget, whereon is 16 Fa. and is diftant from the $/$ Vell Bank 5 Ls. But I lay this is guite off of our Coaft, fo I return to the Land.

From $/$ interton Nefs the Land falls away W.N.W. and then W. till you come into the Channels of Lyn, Spalding and Roffon, which are called the 'Decps: This is a very dangerous Place, and has been a fatal Coaft, efpecially to Ships bound from the North, and decp loaden, as the Colliers gencrally are, here bcing no good Harbours in cafe of a hard Gale of Wind; and as they are embay'd on every fide, if the Wind blows fiom the Sca, unlels their Ground Tackle be very good, and they can ride it out, the: is no Relicf but to run in Weft for
 to go on Shore, which is almoft as bad as Death.

From " interton the next Point is Mafibro'; the Courfe is NW. dift. 3 Ls. and then the Land falling off Weftenly, the next Point is Cromer, the Courle W. by N. and W.N.W. dift. 4 Ls. The Shore begins here to lic flat off a great way.
From Cromer to Blackeny the Courte is W.N.W. 4 Ls. from thence to Wells W. by N. 3 Ls. and thence to Burubam, the $I$ and Itill falling away more, the Courlc is $W$. and by S. 2 Ls.

There is a Place called Mockbeggers Hall, midway between "'interton and Hafebro'; offor which, not far fromthe Shore; hes a Flat, over which no Ship can fail. Between this Flar and the Shore is a narrow Channel, where there is 2 Fa.Water; but without it you have 6 to 7 Fa .
Blakeny and Clye go in at the fame Channel, diftance from Cromer as above. Blakeny has a high Tower Stecple, which beting S.E. and run into s Fa Water, till youlce the Buoys. When
$\mathrm{d}_{2} 2 \mathrm{Fa}$. berween you will have is to 22 Fa . 1 run within it; cad of a Yachr, $t$ being at anchor urch and Land of of the Leman and en them 19 to 22 them, if you are or in the dark. eman and Ower, or many Reafons, this is call'd IVell terton Nc/s N.E. y E. 17 Ls. and ? S.W. about 2 I Ls. t lealt, at the S.W. ad grows narrow. Water, and 22 to s Sand; and from diftance 6 Ls. ell Bank and the It of Holland; fo $\therefore$ and S.W. about ant from the $/ \mathrm{Vell}$ Coaft, fo I return
W.N.W. and then yn, Spaldiug and a very dangerous to Ships bound iers generally are, d Gale of Wind; the Wind blows - very good, and o run in Welt for in the Night, or ath.
; the Courfe is eftenly, the next V.N.W. dift. 4 Ls. bay.
N.W. 4 Ls. from o Burulam, the and by S. 2 Ls. midway between Ir from the Shore; etween this Flat rc is 2 Fa .Water;
cl , diftance from Stecple, which he Buoys. When

Northward. Otl of this Point lies a Sand call'd the Sunk, diftance from the Point 2 Ls. It lies dry at low Water, and there is a good Channel cither within or without.
$N$.B. Here begins the Entrance into the Channels calld $L y n$ 'Decps; and here allo Pilots are taken for carrying Ships up cither to Lyn or Spalding, Wisbceh, or Bolton; Which being fufficient, we need not deleribe thele Chan. nels and Sands, which are almoft numberlefs.

From the Coalt of Norfole to the Coaft of Lizicolalhire, leaving Lyn and Bofton Deep to the S.W. and S.W. by W. the firlt Land you make is the high Grounds within Leger ${ }^{\prime} \mathrm{N}_{\mathrm{e}} / \mathrm{s}$. From whence to the Mouth ot the Humber is 7 Ls the Courli N.N.W. In the way, about a L. hhort of Humber, is Saltfleet Haven; and a litele to the Sourhward of Sindflect is a Spire Steeple call'd W'ilgrip. Thwart of Sandflcet, a little to the Northward of the Spire, is a Sand call'd Sand Hail; 'ris about a Mile from the Shore : At low Water 'tis al. molt dry, but not quite : You may, if driven to it by neectfity, go within the Sand, but 'tis not advilable.

Clole to the Hail Southward is a Sand call'd the Rofes, which beuds out into the Sea a good way E.S.E. to that if a Ship bound from Cromer to the Humber, or towards the Spurn Head, fhould be drawn in to the Weftward, by the Force of the Indraft of the Tide towards Lyn Flats, as is mention'd above, they may be in danger of falling upon the Tail of the Rofe, and be faft a-ground. It is a broad Sand, and lies off of l'ilgrip duc Eaft.

A little above the Sand Hail, at the Entrance into the Humber, lies a Shoal call'd the Bull; it bears S W. from the Spurn, diftance i L. and this League diftance makes the fine Turning. Channel up the Humber, having 10 to 11 Fa . Water at the loweft Ebb. On the inner fide, viz. to the Weftward of the Bull, is a Sand ftretching from $C l y \mathrm{Ne} / \mathrm{s}$, a Poiut of Land to the S. of Grimsby, oppofite to the N.W. end of the Bull: And this makes a Channel that runs S. to Homerflon, having 3 Fa. at low Water; and the Sand ftretches W. by N. to Grimsby.

At Grimsby, which is the next Land to Saltficet, if you come from the $S$. or at the Spurn, if you come from the N . you will find Pilots to carry you up the Hamber, and into Hull, or farther up into the Oli $\dot{e}$ to York, or into the Trent to Gainsborough, or into the Air to Selly, and any other Places as your Occafions require. There is a great Indratt in the Mouth of the Humber, the Tide therefore is very violent.

If you are bound out of the Humber, or from (irinsby, you mult take great care to avoid a Sand grown up within a feiw Years paft near the Spurn Head: !es Name is enough to warn you, 'tis call'd the Dreadfiul, and feveral Ships were lolt on it before it was thorowly known. The Danger is now leffen'd by two Light-houfes being fet up on the Spurn, by Order of the Trinity-boufic of Hull, who caus'd the Sand allo to be perfectly furvey'd.

## Directions for Sailing from the Tha

The Town of Kilnea bears N.W. ${ }^{\prime}$ W. from the $S$ point of it ; the bigh Land on Durlington bears N.W. by N. and the twio Light-bouffir on the Spurn bear W. by N. from it, diffance 4 Miles. In order to go clear of the $S$. end of the Sand, bring Effington Stecple and the Mill behind it, into one.

The S. cud of the Drcadful has but 7 Foot Watcr at JowWatcr, and is ftecp too, having 6 Fa. clofe by it ; Which makes running upon it truly dreadful; for the Head of a Ship fhall be a-ground, and the Stern a-float in 6 Fa. Water. The Sand lics N.E. by N. and S.W. by S. about a Milc and half in length. Between the Sand and the Shore you have from 5 to 9 Fu. both ways.

There is another new Sand difeover'd without the Mamber's Mouth, and within the '7readfiul: It was furvey'd by the Tinity Men of Hull in \% Y $\%$ 1713. 'Tis diftant from the Triadful about 2 Milcs N.W. and bears from the Spurn Lights E. by S. Walf S. Kilnfa Churb bearing from it N. W. by N. It ftrctches E.N.E. and W.S.W. about a quarter of a Mile, and has on it not above 5 Foot Water at low Tide. 'There is a good Channel within it, with 6 Fa. gradually thoaling to the Main ; and between it and the Dreadfill another with $\rightarrow$ to 8 Fa .

If you are within thefe Sands, and on the W. fide of the Spitrn Head, and lic for a Wind, or are intending to go up the Humber, or over to the other Coalt, you edge to the Northward, where you may ride well with a N.E. or E.N.E. Wind, or ftecr away W. and by N. towards the Bull Sand, kecping in 7 to 8 Fa. and from thence keeping the thwart Mark of the Buoys in view, which is a Houfi uponthe W. end of Clay Nch.s C/iff'; and with thar Mark you may run over to Grimsby Road, where is good anchoring below the Beacon in 7 to 9 Fa.

If you are bound into Hanber from Foul $N c / s$, or the $/ \mathrm{Vell}$, kecp Patrington Spire a Sail's breadth open of the Spurn Head, and ftecr in with that Mark till you come to Burcom Beacoit; then the Courle is N.N.W. but, as above, you may make Signals for a Pilor.

There are fome Shoals and Overfalls on the S. Shore, which have not above 6 to 9 foot Water; but if you keep the fai: Way, you are to the northward of them. There is aifo a dangerous Shoal in the Chamel it felf, calld the Silver Pits, IS ins thwart the Buoy of the Bull: To avoid which you mult keep the S. fide of the Channel ; and to go clear of it, you mult ftecr from the Buoy of Clay N'ess to the Buoy of Burcom, leaving them both on the Larboard-fide going up, and on the Starboard-fide coming down.
N. B. There was a Neweffle Collier loft on that Sand, tho the drew not above 13 Foot Water.
N. B. In this Chancl before the Humber, an E.N.E. and a W.S.W. Monn make full Sca.
N. B. From Cromer, and Blackucy, or Foul Nefs, on the Coait of Norfoll, to the Spurn and Flambrough Head, the Flood fets S.E. and the Ebb fets N.W.

Name Picr, N.V fouthin Road, within the R Wyck) Tides Flamb Bet where cafterl
$W^{\prime} / b i$ Water, you in guide bring Point

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Nex lour, and $H$ comes Mout ftrect foul an they on th fide th Bet rous F nearer Ab Port, you u being Point, the fo

## from the Thames Northward.

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E Humber's dd by the from the the Spurn g from it a quarter t low Tide. ually thoalfil another
fide of the to go up the thic NorthN.E. Wind, $m d$, kecping Mark of the f Clay $\mathrm{N}^{\prime} /$ /s to Grimsty in 7 to 9 Fa. or the $/ \mathrm{V}$ ell, the $S_{p u r n}$ to Burcom , you may
ore, which ecp the fai: re is ailio a Silver'Pits, which you clear of ir, the Busy of e going up,
at Sand, tho
N.E. and a
$\sqrt{e} / s$, on the rough Head,

Name on Shore, with a tinall Pier: You may lie within the Pier, but 'tis dry at low Water.
N.W. from tlamborough is Scarborough, diftant 5 Ls. To the fouthward of the Caftle is a fair Sandy Bay, where is a good Road, and a Picr belonging to the Town, and a little Pier within that: But the Ships lie dry in both at low Water; the Road Without this Picr is good ('tis call'd Scarborong's W'yck) and licre is very good riding in 4 to 7 Fa. the SpringTides rifing $1 ;$ Foot. Ihe Land is high on all this Shore from Flambrough Head to Whitby, and on to the Tees Mouth.

Between Scarlorough and Whitly is Robin Hood's Bay, Where is good anchoring in 6 to 8 Fa. But'tis a bad Road for caftcrly W'inds.

W'bitby is a Tide-Haven too; good Ships may go in at high Water, and lic dry at low Water. There are Pilots to carry you in clear of the Rock, which lics off of the Bar; fo I need guide you to the Entrance only: The Mark to go in is to bring Whitby Clourch Stecple open to the northward of the $\mathbf{S}$. Point of the Haven.

From W'bitby the Land upon the Coaft lics very high, trending away W.N.W. and W. by N. The firft high Land is calld Huntly Foot, or Hunt Chiff Foot, being a high Cliff clofe to the Sca, diftance from W'bitby; Ls. to the W. and + Ls. to the Eaftward of the Tees.

Next to Huntly Foot is Red Cliff, diftinguilh'd by its Colour, from whence it has the Name of Red: This Red Cliff and Hartle'Pool make the Mouth of Tees, at leaft the Tees comes in between them. Clofe to the fouthward of the Mouth of Tees lic three Ledges of Rocks calld the Salt Scarrs, ftrctching into the Sca E.N.E. a Mile and half: They are very foul and dangerous, but are dry at low Water. On the S. fide they are fo ftcep that founding : : $13^{\text {to }} 14 \mathrm{Fa}$. you hall be upon them before you can heave the Lead again; but on the N . fide they have good Shoalings.

Between Hartle Pool and the Tees lies another dangerous Rock, call'd the Loug Scarrs, near the Shore. Come no nearer to it then 5 to 6 Fa.

About 2 Ls. up the River is the Town of Stockion, a good Port, and a place of Bufinels. There are Pilots alfo to carry you up to the Town, which is difficult to Strangers, the Freflics being fometimes very frong here. The Town flands on a Poinr, lying out like an Ifland; the Harbour is in a Bite, to the fouthward of the Town.

Hartle Pool lies N.W. from W'bitby, diftance 7 Ls. There is a Stone Pier or Head very fecure for Veffels when they are in, but'tis dry at low Water. The Dircction for the P'ier is very flort; there is a Beacon at rhe Eatrance; leave it on the Starboard fide, (to avoid fome Rocks which lic off on the Shore) and run right in at high Water : There is no danger, if you draw not above 12 Foot Water. There is a Sand callid the Gamble, which you will avoid by kecping as near the Prier as you can.

To the fouthward of the Town there is a good Road, where you may come to an Anchor in 4 to 6 Fa . The Town ftands

There are fome Shoals and Overfalls on the S. Shore, which have not above 6 to ${ }^{9}$ foot Water; but if you keep the fair way, you are to the northward of them. There is allo a dangerous Shoal in the Chamel it felf, call'd the Sileer pits, Sing thwart the Buoy of the Bull: To avoid which you mult keep the S. fide of the Channel ; and to go clear of ir, you mut flecr from the Buoy of 'lay Nefs to the Buy of Ciurcom, Icaving them both on the Larboard-fide going up, and on the Statboard-fide coming down.
A. R. There was a Nericafte Collier loft on that Sand, tho the drew not above 1 ; Foot Water.
N. B. In this Channcl before the Humber, an E.N.E. and a W.S W. Moon make full Sca.
N. B. From Cromer, and blackey, or Foul Nefs, on the Coaft of Norfolk, to the Spurn and Flambrougs Head, the Flood licts S.E. and the Ebb fets N.W.

Bcing off of Foul Nefs, and bound to the N. to the Spurn, or Fi/m, berouth llead, as above, you mutt flecr according as you have the Tude, and of which you munt be very watchtul; for there is a great Indraft in the Bay on the Coalt of Lincolnfinc, and the flood fits very ftrong into Lyn and Boffon Detps: When you are open with them, the Flood fets in S.E. and the Ebb fets out NW .
When you have made the spurn, kecping but off from being embiy'd, you have nothing to hurt you between Foul Nefs and the Had. From thaice to Flamborough the Courfe is N. by W. a bold and clear Shore, diftance ${ }_{y}$ Ls. There is a good Light honte upon Flimberough Head.

On the S. Fute of the Htad under the Hills, lics Bur-ington or Boiditurty : There is very good anchoring in the Bay, and clan (iround woll fecurd from moft Winds; for there is Simstreck Saut to lecure it from the Winds off Sca, and Flamboiotyl Hil!ts for the Winds off Shore. The N. end of this $S_{\text {and }}$ lics S.S.W. from the Hiad, diftance 2 Miles : And between the Saud and the Head is good Ground in 7 to ${ }_{9}$ Fa. and the like jult betore the Town. The S. end bears from Piurliugtou Kis S.E. by E. diftance ${ }_{1} L$. The fhoaleft of the Sand Dears S.E. by E. and E.S E. from the Key. Here alfo is very good aachoring in 4 to 6 Fa at low Water, and very good going in or our at the W. cnd of the Sand; and you may ifand m to the Shore in what Depth you pleale. Burtuigtoiz Key is a Tide Haven, dry at low Water: The SpringTides rife a Fa or thereabout.

Thrce Leagues from Flamborough Head is Filey Brigg, which is not a Bridge, as the Word fecms to fuppofe, but a redge of Rocks, and thould have bocon call'd (as'tis believ'd it was orisialally) Filly Reces or Ridge, for to they call a Ridge in their northern Dialect: They lie ftretching out into the Sca N by W. from Flambciough Head, but SE. by E. from the Land: There is good anchoring within the Rocks in $\rho$ Fa. being lief from nostherly Winds. There is a Town of the fame

Shore, which kecp the fair herc is alfio a e Silier Pits, id which you go clear of it, o the Bury of fide going up,
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$N^{2} \cdot f(s)$ on the voutgh Head,
to the Spurn, : according as ery watchtul ; ut of Lincoln$n$ and Boffon od fers in S.E.
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es Burlington the Bay, and ; for there is ca, and Flam. N . and of this iles : And bein 7 to ${ }_{9} \mathrm{Fa}$. id bears from hoaleft of the
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Filey Brisg, uppofe, but a 'tis believ'd it call a Ridgc tr into the Sca E. from the ks in $\rho$ Fa. bc. n of the tame
rons Rock, calld the Loug Scarrs, near the Shore. Comenco nearer to it then 5 to 6 Fa.

About 2 I.s. up the River is the Town of Stockiton, a good Port, and a place of Bufinets. There are Pilots alfo to carry you up to the Town, which is difficult to Strangers, the Frethes being fometimes very fltong here. The Town flands on a Point, lying out like an If.- '; the Harbour is in a Bite, to the fouthward of the Towi

Hartle Tool lics N.W. from Whitby, diftance 7 L.s. There is a Stone Pier or Head very fecure for Veffels when they are in, but tis dry at low Water. The Direction for the $\mu$ 'iur is very thott ; there is a Beacon at the Entrance ; leave it on the Starboard fide, to avoid fome Rocks which lic off on the Shore) and rum righr in at high Water: There is no danger, if you draw nor above 12 Foor Water. There is a Sand call'd the Giamble, which you will avoid by kecping as ncar the Pier as you can.

To the louthward of the Town there is a good Road, where you may come to an Anchor in + to 6 Fa. The Town flands on a P'enimfula, which runs out far caftward into the Sca; and then turning S . makes a finall Hook: The Pier is within this Hook, lying on the W. fide of the Town.
Two Leagues to the northward of Hartle Pool, and about a Mile from the Shore, are two Rocks, one under Water and the other above; they are call'd the 'Dogger and the lioat: The firft is the largeft, and appears above Water like a Ship lying in the Water bottom up; the other is 2 Fa, under Watcr at low Watcr.
The next Port N. from Hartle Tool is Sunderland, diftance 4 I.s. It is a Barr'd-Port and a Tide-Haven; and therefore the larger Colli- take in their Coals without the Bar. Here is a very great ling for Coals, and tha Collicry is fo grear, and the Coal-Pits io' many upon the River W'ear, which comes in herc from 'Durr'lam, Lumliy, and other Parts, that they fay, if the Port was able to receive great Ships, there would be more Coals loaden here than at Neweaftle: But there is but 2 Foot at low Water in the Haven, and but 12 at high Water; to that the Kecls which bring the Coals, are oblig'd to go over the Bar into the Road, where fometimes they are loft, and often in danger, haviug neither Sail or Rudder, and ly: ing heavy with their Loading, they foon fill and go to the Bottom. There is a dangerous Rock call'd Henden in this Entrance : It lies to the louthward of the Bar, and muft be carcfully avoided: To go clear of it, keep Whitborn Charch, open to the eaftward, with the Humock upon the Cliff; and that carrys you without it.

North from Sunderland is Tinmouth, diftance ${ }_{7}$ Miles: The Name directs us to know that 'tis the Mouth of the River Tine. Juft at the Entrance, and on the N. Point, ftands the Caftle and a Light-houle. It is a Barr'd-Port, and the Entrance difficult, as the Winds and Tide may happen : Yet there is 2F. at low Water, and $3 \frac{1}{3}$ at high Water: So that the Tide riles here ${ }_{14}$ Foot at leaft; whereas at Sunderlend it riffes but . O Foot: The Difference is occafion'd by the Iudraft of

## Diretions for Sailing from the Th

the River Tine, where the Tide runs very ftrong in, and gocs far up.

Befides the high Light-houfe upon Tinmouth Caftle, there are two other Light-houles within the Bar, on the lame $N$. Shore of the River: They are leading Marks alfo for going over the Bar. The N. Shore of the Entrance is rocky and ftony : And on the S. ficie is a Sand call'd the Hardened. But you may have a Pilot always here to carry you over the Bar ; and when you are in, the Harbour is very good, between the two Towns of North and Soutb S/jiclds, and the River likewife, all the way up to Newicaftle : So that 1000 Sail of Ships may lic and load in the River at a time, with the greatelt Sccurity.

About a Mile N. from Tinmouth is a fmall artificial Haven, made by Hands, call'd Callercoats; 'tis made for loading Coals and Salt, and is of no other importance: 'Tis a TideHaven, and the Entrance lics among leveral Rocks; but 'tis mark'd or directed by Beacons known to thofe that ufe the Place, and ncedlefs to others; for 'tis a Port only belonging to private Hands, for the Ufe of fome Collicreys adjoining.

The Coalt from hence gocs ftill away due N. for near 40 Miles: In that length you have icveral fmall Portsor Crecks, and Havens, moftly us'd for loading Coals and Salt; as firf Seaton, or S'aton Stuice, diftance from Tinmouth 5 Miles: 'Tis a timall Tide-Haven, and a Pier; but there is not above 10 Foot at high Water. There is good anchoring in the Road in 4 to 8 Fa . and there the Ships take in their Loading, if they draw too much Water for the Pier.

The next Place is Blith, at the Mouth of the River Coguet, diftance from Seaton $\perp$ L. 'The Entrace to this Place is difficult; but the Fithermen are all Pilots, and will guide any Ship in, the Channel being all beacon'd.
N. B. The Pilot Books muft be ftrangely erroncous here, which may endanger any Veffel if the Mafter is not acquainted, and does not take a Pilot: For they lay ex. precly, there is 6 Foot Water in the Entrance at low Water; whercas I have rode over the Entrance at low Water feveral times, and not been up to the Horte's Belly.

Alfo they tay there is 16 Fa . at high Water, and but 6 Foot at low Water; which cannot be true: And yet the Words farteen F'athoms are twice repeated. This I note for the Safety of Strangers that may bebound in. The truth of the Cale is thus, That at the Kiy there is 16 Foot Water at the Top of the Springs, and 2 Foot to $2 \frac{1}{2}$ at low Water, betwecu the Beacons at the Entrance.

There is a good Kcy within the Bar for the loading of Coals, but no Town nor any Navigation tarther up, except for fuall Boats, Kecls, and Fifhing Vcfels.

Five N Bay, and Channel 1 on Horlel South fide Caftle on

This H the Collic are put by no Harbo North, as Allo th S.W. Win to haul on

There but the br the Goulff flon, or C Tide; anc to half Eb 'tis above where wit

There Water at of it is fo the Caftle

The H Bar at low N.E. whe carry you in the $S h$ Rocks cal the Part, Illand to which is $t$ in the fair You have Tides.
N.W.b wick upo Tweed is 7 Foot at full 3 Fa. nough for Harbour,
c, there fame $N$. going cky and d. But he Bar ; veen the ver likeof Ships greateft

Haven, loading a Tidcbut 'ris ufe the clonging jining.
near 40 ceks, and t Seaton, is a fmall t at high to 8 Fa . Jrav too

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us here, ; not aclay cx at low at low e's Belly. and but And yet This I din. The 16 Foot ) $2 \frac{1}{2}$ at

Five Miles N.W. from the Fern lies Holy Ifland, in a kind of Bay, and within about a Mile of the Shore. There is no Channel between the Ifland and the Main, but the People ride on Horfeback over the Sands to and from the Illand. On the South fide of the Ifland is a very good Harbour, defended by a Caftle on a high Hill, and a Platform of Guns.

This Harbour, tho fo far North, is oftentimes a Shelter to the Colliers Ships bound from London to Newcaftle, when they are put by the Bar at Tinmouth; in bad Weather; for there being no Harbour nearer hand, they are forced to run away to the North, as far as this Illand.

Allo the Ruffia and Greenland Ships, after coduring long S.W. Winds, often put in here. Here is a good Convenience to haul on Shore, ftop Leaks, carcen, wafh and tallow, Єூc.

There are four feveral ways to go in or out of this Harbour ; but the broadelt and beft Channel is between the Staples and the Goulfon: The Staples are ueleribed above. The Goulflon, or Goldflon, is a fmall Rock lying under Water half Tide; and above Water half Tide; that is, from half Flood to half Ebb'tis under Water, and from half Ebb to half Flood 'tis above Water. It is bold too, and Water enough every where without.

There is another Rock called the $P$ lough; this is above Water at a quarter Ebb to three quarters Flood. The N.E. end of it is foul about a Cable's length. The Plough lics E. from the Caftle on Holy Ifland, diftance about half a Mile.

The Harbour is bart'cu, but there is 9 Foor Water upon the Bar at low Water, and there is a good Road, the Caftle bearing N.E. where you may ride in 4 to ; Fa. till the Tide terves to carry you into the Harbour. You may take a Pilot to carry in the Ship, or obterve this Direction: You lee a Ledge of Rocks called the Stone Ridge on one fide, and another called the Partuer Still on the other: Bring the old Church on the lland to bear N.W. and get the Soundings of the Stone Ridie, which is the bolder fide, and keep clole to them, and you are in the fair way, and the beft of the Channel into the Harbour. You have 4 Fa. Water upon the Bar, at high Water Spring Tides.
N.W. byW. from Holy Ifand is the Port and Town of Berwick upon Twied, dittance 3 Ls. The Entrance into the Tweed is narrow, and the Port has a Bar where is about 6 to 7 Foot at low Water, and no more. But the Springs rife here full 3 Fa. fo that you have ${ }_{25}$ Foot at high Water, which is cnough for Ships of good Burden. Alfo when you are in the Harbour, it is very good, and you go clole up to the Key.

[^2]чмиж prefly, there is 6 Foot Water in the Entrance at low Water; whereas I have rode over the Entrance at low Water leveral times, and not been up to the Horfe's Belly.

Allo they lay there is 16 Fa . ar high Water, and but 6 Foot at low Water; which cannot be true: And yet the Words fixteen Frathoms are twice repeated. This I note for the Safety of Strangers that may be bound in. The truth of the Calc is thus, That at the Key there is 16 Foot Water at the Top of the Springs, and 2 Foot to $2 \frac{1}{2}$ at low Water, between the Beacons at the Entrance.

There is a good Kcy within the Bar for the loading of Coals, but no Town nor any Navigation farther up, except for fmall Boars, Kcels, and Fifhing Veffels.

Some Rocks lic E. from blith, about a Mile off in the Sca; they are feen above Water the laft quarter Ebb. They bear N. by E. from Scaton. They who fail along Shore ought to be very careful of thefe Rocks. The Flood here fets away S:E. by S. and the Spring Flood rifes almolt 3 Fa. but ordinarily 16 Foot.

Cocket Illand lics 6 Ls. from Tinmouth, Caftle, and above a Mile off Shore; it is a good Road for foutherly Winds : From the South end of the Ifland to the Shore it is all Rocks and broken Ground, where at low Water at one place there is 8 or 9 Foot, and dangerous: But the N . fide is bold, only from the N.W. patt of the Illand lic off fome Rocks about half a Mile into the Sca. Small Veffels may bring the Inland S. and anchor in 3 or 4 Fa . but greatcr Ships muft bring the Ifland S.E. and anchor in 5 Fa. at low Water. The Road is clean Sand.

From Cocket I fand the Shore goes away N.W. to Aylemoutb and W'arkwortls Caftle. There is a Creek where the River Ayle empties into the Sca, but no Harbour. There is good anchoring in the Road in 5 to 9 Fa . From Warkworth the Shorc turns again N. to the Staples, and Firm or Fern Ifland: Thete are feveral uninhabited Inlands lying E. from the Shore, the outmoft of them diftant 5 or 6 Miles, and many Rocks about them very dangerous. They are N. by W. from Cocket dett. 6 Ls. Between the life of Firm and the Main is a good Channel a Mile and half broad, and very good anchoring off of Rambro' Caftle, where you are fafe from an E. or N.E. Wind; but 'tis open to the S.E. 'tis called Scate Road. There is a Light-houfe on the Fern Inland, but 'tis ufed only as a Seamark: The Staples lie a Mile without the Fern N.E. and are rather a Ledge of grear Rocks than Iflands: You have ${ }_{2}{ }_{4} \mathrm{Fa}$. Warer within half a Cable's Iength from them, and $; \circ \mathrm{Fa}$. within a Mile.

If you are bound $\mathbf{N}$. from the Cocket, or from Tinmouth, keep in ${ }_{3} 8$ to ${ }_{40} \mathrm{Fa}$ and the Depth will carry you at leaft $;$ Ls. to 4 Ls. clear of the Staples. All this Courle you fee the Chewiol Hills. far within the Shore; which are to exceeding high, that they are leen \& Ls. to Sca or more, and are a fure Guide to know the Coalt by.
the Parthe Ifland to bd which is the in the fair $y$ You have Tides.
N.W. by wick upon Tweed is n 7 Foot at ld full 3 Fa. fo nough for $\$$ Harbour, it
$N . B$.
with littl Brid near

From $B e$ Head (calle tween them for French Scots in the Filhing Vcff

Between bar. But th derable Trad Rocks; and fmall Veffels.

From St. the Ille of Bafs on the trance into high round F micrly it had molih'd: 'I feen a great Shore, and Water in the

The May 7 Milcs : 'ti Illand is alfo dwells there well ferv'd:

Bringing anchor to t fhould not you may and Between the nel and dee Leith Road
the Partuer Still on the other: Bring the old Church on the Illand to bear N.W. and get the Soundings of the Stone Ridge, which is the bolder fide, and keep clofe to them, and you are in the fair way, and the beft of the Channel into the Harbour. You have 4 Fa. Water upon the Bar, at high Water Spring Tides.
N.W. byW. from Holy Ifland is the Port and Town of Berwick upon Tweed, diftance 3 Ls. The Entrance into the Tweed is narrow, and the Port has a Bar where is about 6 to 7 Foot at low Water, and no more. But the Springs rife here full 3 Fa. fo that you have 25 Foot at high Water, which is c nough for Ships of good Burden. Alfo when you are in the Harbour, it is very good, and you go clole up to the Key.

> N. B. Here is no Navigation beyond the Town, notwithhtanding the Twed is fo great a River: for within little more than a Mile from the Bar, is the great Stone Bridge over the River, the largeft Bridge in Europe fo near the Sca.

From Berwick the Courfe lies N.W. by N. to St. Tabbs Head (called fo from Coulldingham Abbey) diftance $s$ Ls. Between them is a fimall Port called Heymouth, formerly of note for French Squadrons landing Forces for the Succour of the Scots in their Wars with Eugland, but now of ufe only for Filhing Vcffels and other fimall Cratt.

Between St. Tabós Head and the Ba/s is the Port of Tunzbar. But tho the Town is a Royal Burgh, and has a confiderable Trade, yet the Haven is but limall and among the Rocks; and is of ufe chiefly for their Fifhing Boats and other fmall Veffels.

From St. Tabbs Head, the Shore ftill falling off Weft, lies the Ille of Bafs, diftant 4 Ls; the Courfe is W.N.W. The Bafs on the South, and the May on the North, make the Entrance into the Firth or Frith, of Edinburgh. The Ba/s is a high round Rock in the Sea ; 'tis not inhabited now, tho forwerly it had a Fortification, and a Houle, which is now demolihh'd: 'Tis a good Mark to know the Firth by, for it is feen a great way off at Sea : 'tis about a large Mile from the Shore, and is fleep too all round it. Alfo you have is Fa . Water in the Channel between the Ifland and the Main.

The May bears N.N.E. Eafterly from the Bafs, diftance 7 Miles : 'tis larger than the $B a / s$, but not fo high. This Illand is alfo uninhabited except by one Man or Family, who dwells there to tend the Light-houte, which is very high and well letry'd : this Light iseen 6 Ls. off.
Bringing this Lighthoute to bear from you W.S W. you may anchor to the Ealtward of the Ifland; when if your Anchor fhould not hold, you will duly drive into deep Water. Alfo you may anchor on the Weft fide of the $A l d y$ in is to it a. Between the May and the Sourh Shore of Fife is a large Channel and deep Water, which all Ships go thro', bound from Leith Road to the Notth.
N. B. Here the Squadron of French Men of War rode, wh a having the Pretender on board they defignd an Invafion in his favour, and when having notice of the Britilh Squadron being in the Mouth of the Firth off of 'Dunbar, they food away North thro' this Chamel to make their Eicape.

If you are bound up the Firth to Leit', Road, the Courle from the Moy is W.S.W. to Iuch Keith, an lland oppofite to Leith, diftance 7 Ls. and from Inch Keith, to Leith S S.W. 1 L. As alfo bringing Leith, Town to bear S. or S.S.E. you may anchor in 5 to 8 Fa. Water a Mile and a half from the Shore: This is called Leith, Road.

It is a gencral Rule for the whole Firth below Leith, that wherever you anchor in Iets than 12 Fa . you have good clean Ground.

Leith) is a Tide-Haven, as all the Havens in the Firthare. where the Ships lic dry at low Water. They that go in here mult enter with the Flood, or on the top of high Warer, learing the Beacon which is at low Warer Mark on the Larboard fide ; and fland right in tor the Pier Heads. The Tide flows ${ }_{1}$ F Foot between the Heads at Spring Tides, but ebbs out half a Nile from the Heads; fo that it flows at leaft 16 to ${ }_{17}$ Foot in the Offing.

From Leith Road to the (Qucens Forry the Courfe is W. by S. keeping the S. Shore on board, andfeering between the lile of Cramond and the Rock-Mnckgry: Then go away W N.W. till you open the $\mathscr{Q}^{2}$ Itens Ferry Town, before which you may anchor in 5 to 7 Fa . Water.

The firth growing narrow here at once, viz. from 7 Miles to 2 Niles, and then immediately widening again to 4 and 5 Milcs, and contmuing that bradth for 2 or 3 Ls as high as Allizalay. and with deep Water allo, frequently makes a great Indraft of Water ; and that caufes a very ftrong Tide ar the Forry, where there is an Ifland in the middle, which yet ftraitcus the Channel more.

Above the Illand, and in the very narrow Paffage of the Ferry, is a fimk Rock; the Top of it may be feen above Water at: tibb: Clofe to which Rock, and in moft part of the Channel, is from 30 to 36 , to 40 and 45 Fa . Watcr.

If youare bound thro here, and are gomy up to Borowifone/s, or Alloway, pilots are always to be had at the Fery, or at Innerkeitbing, a Haven in the Bite on the N. Shore below the Bay, where there is a good Road mion to 20 Fa . Water.

The Fotb is full of finall Towns on cither fide, between Iuncreketsin and the May and the Bafs; at moft of which there are fmall Tide-Havens or Pier-Heads, as at Innerkeithin, Brunt-I/and, Kinghorn, Kirkaldie, Dy/irt, Heems, Methel, Leien, Anfivuber, Creill, Pittenweems, 'rerefonP'ans, Port Scaton, Fifhcraü', Cockente, \&ec. But there are no Shoals or Sands on cither Shore, only that all the Shore fiom Leith to Muffebre' is flat a great way off; fo that in tome Places the Tide ebbs above a Mile out. There is very good anchoring in the Bay off of Port Seaton in 5 to 8 FL

Harbour ; but fimall Bite in $t$ athore in it w Fifhing Scation $i$ choring in St. but not otherw

Onc L and from the C arr a red Sandbill, two Light houl into the River which is the a Mile and $h$ is the $S$. Sand S. fide of the low Water. Bc the River Tay, is but ${ }^{2} \mathrm{Fa}$. W: the River Tay, or N. half W. the high deck'd $t y$, which is a ble's length of Fa. Water: Tl ing above Caffl void the $\lambda^{\prime}$ ewed Brougbty, and or 6 Fa. Water and fafe Road wards $P$ erth,

If you thoul the Sea high, according as yo Head-fiil: but great Sca , it is the Channel be

From the Ri by N abour ${ }_{3}$ Town and Picr ward of Red 1 good anchorin!

North from Montrofe, difta above two Cat Rock called th Spit of Sand ca trance into th but they gener for, as above, rumning fltom Breach.

From Mont Ls. All the way Shore; but if

## on the Coajt of Scotland.

de, Harbour ; but when you come into it, 'tis no more than a but not otherwife.
One L and halffarther N. the Firth, of Tay opens, bearing from the Carr Rocks N.N.W. On the N. Shore of the River is from the Carr Rocks N.N.W. On the N. Shore of the River is
a red Sandhill, called Bokannis, or Botomas, on which ftand two Iight houles by the Shore; being a leading Mark to fail by into the River Tay. Yougo in between two Sands; the one, into the River Tay. Yougo in between two Sands; the one,
which is the N. Sand, is called the Goa, and lies off E.S.S. a Mile and half foom Bockanais fide; the other, which a Mile and half fom Bockatmais fide; the other, which
is the S. Sand, is called Avertic, and lies off from the S. fide of the River E.N.E. two Miles and a half; and dries at S. fide of the River E.N.E. two Miles and a halt, and dries at
low Water. Between thefe two Sandheads is the going into the River 'Tay', which are a Mile afunder without; and there is but 3 Fa . Water from Sandhead to Sandhead. To fail into the River Tay, bring the hisheft part of Bukannais Hill N.W. or N. half W. Wefterly, or the Lights together, till you bring the high deck'd Hill, call'd I Inndie law, jult over Caftle Brongho $t y$, which is a leading Mark in. You may fall within a Cable's length of the low Light by the Water fide, having 6 or 7 Fa. Water: Then fail up half Weft, and half Southerly. Being abovc Caflle Broughty, keep wearelt the N. Shore, to avoid the Newcome Sand that lies on the S. Shore above Caftle Brousbty, and then anchor before the Town of Coundee in 5 or 6 Fa. Watcr; bring the Town N.E. where is a very good and fafe Road for all Winds. If you are bound higher up towards Perth, take a Pilot at Duudee.

If you thould lail into this River when it bloweth hard and the Sea high, take 2 or 3 heurs Flood with you, more or lets; according as your Ship is in Burden ; and be lure to keep a good Head-fail : but if you thould go in wrth a Tide of Ebb, and a great Sca, it is very frighttul and dangerous for laden Ships, all the Chanuel being of a Breach.

From the River Yay to the Red Head, the Courfe is N.E. by N.about; Ls. AMileWeftward of the Red Head is the Town and Picr of strbroth, a place for Boats only. To the Northward of Red Head, is a fair Bay called Lounan Bay, where is good anchoring in 8 or 9 Fa. Water, the Red Head bearing S.

North from the Red Head is the Entrance into the River of Montro/e, diftance ${ }^{4}$ Miles: The Channel is very narrow, not above two Cables length over: On the South fide there lies a Rock called the Stone, and from the North fide runs off a Spit of Sand called the Annot. Between theie two is the Entrance into the River; the Entrance has very good Marks, but they generally take a Pilot at the Mouth of the River; for, as above, when theWind blows hard offSea, and the Ebb is running ftronger out, the Mouth of the River is all of a Breach.

From Montrofi to the Todlsead the Courfe is N.E. diftance 4. L.s. All the way between both is good riding, if the Winds are off fimall Bire in the hollow of the Shore: The Fithing Boats lie athore in it when Fithing is over, and thelter in it allo in the Fifhing Scafon in calc of bad Weather. There is very good anchoring in St. Andrew Bay, when the Winds are off Shore,

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Abowe the llland, and in the very narrow Paflage of the Ferry, is a funk Rock; the Top of it may be feen above Water at Ebb: Cloce to which Rock, and in mott part of the Chinnel, is from 30 to 36 , to 40 and 45 Fa . Water.

If you are bound thro here, and are going up to Borowifonefs, or Alloway, Pilots are always to be had at the Ferry, or at Innerkeithing, a Haven in the Bite on the N. Shore below the Bay, where there is a good Road in 16 to 20 Fa. Water.

The Firtls is full of finall Towns on either fide, between Innerkerithin and the May and the Ba/s; at moft of which there are fmall Tide-Havens or Pier-Heads, as at Innerkeithin, Brunt-Ifland, Kingborn, Kirkaldie, Dy/ert, W'eems, Methel, Leven, Anfiruther, Crill, 'Pittenweems, 'refton--Pans, Port Scaton, Fijheraü, Cockenic, \&c. But there are no Shoals or Sands on cither Shore, only that all the Shore from Leith to Muflebro' is flat a great way off; fo that in fome Places the Tide cbbs above a Nilc our. There is very good anchoring in the Bay off of Port Seaton in 5 to 8 Fa . Water. The North Point of Land. which makes the Mouth of the Firth on that fide, is called Fifene/s, being the South. crmoft Point of the County of Fife, and a L. diftant from the Ithand Mos.
E. N.E. from this Point, and diftance one Mile to Scaward, lies the Ciar. Thele are a Ledse of very great Rocks, which lie montly under Water, only the outward Rock drieth the laft yuarter Ebb; the others are only feen at low Water, at Spring Tides. Kecp the Light of the May S. by W. and that will carry you clear of the Carr. In the Night come no nearer it than in 5 or 16 Fa. Water. If you lic to the Northward of it, you will have ${ }_{15}, 16$, and $1_{7}$ Fa. and if to the Southward, you Hill hasc 22 to 24.
N.E. half N. from Fifene/s, lics another great and very danEerous Rock, moftly under Water, except at the laft quarter Ebb; it is called Inch Cape, the word Inch in that Country figuifying an Illand. From the Mouth of rhe River Tay it bears E. half S. diftance ${ }_{4} \mathrm{Ls}$, and from the Red Heai: S.E. 3 : Ls, and from the Light-houle on the May N.N.E. $\sigma$ Ls.

Bringing the Ifle of $l ; a / s$ in one with the May, carrics you juft on the Edge of the Rock; but the Bafs on the Eaft part of the May carries you clear. It is bold, and you have is to 22 Fath. within a Mile of it, except juft on the S.W. fide of it, where there is but 4 and 5 Fa a Mile off: The Rock it Ceif is about a Mile long, and a Cable's length broad. The Flood runs oucr it S.W and the Ebb N.E. and the Sca breaks upon it with great Violence, witha S.E. or N.E. Wind ; but the greateft daneer is in fimooth Water, and near the top of the Tides.
N. from IFifenefs, and between the $N e f s$ and the Mouth or Finth of Tay, is st. Audreas Bay: In the bottom of the Bay whe Town or City of St. Audrews, clofe upon the Shore: There is a fmall Tide Haven with a Stone Pier, where is not alone to to 11 Foor Water ar high Spring Tides, and 7 or 8 at Neap Tides. Two Miles to the Northward of this Port is an falet called Edry: at high Water it fows from the Sea like a
the Chan From by N ab Townan ward of good anc North Montrofo above tw Rock cal Spit of S trance but they for, as at rumning Breach.

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of a fmal the fame In the $b$ 2 good 13 Foot Girdle little be Ther the Poi Aberded Rivers berdeen difficult that no
From NN.E. twecn b ceive F ward of called $C$ tle Tid high W large B Northe ly by th youhac blows.
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the Chanuel being of a Breach.
From the River Tay to the Red Head, the Courfe is N.E. by N.about ${ }_{3}$ Ls. A Mile Weftward of the Red Head is the Town and Pier of slrbroth, a place for Boats only. To the Northward of Red Head, is a fair Bay called Lounan Bay, where is good anchoring in 8 or 9 Fa. Water, the Red Head bearing $S$.

North from the Red Head is the Entrance into the River of Montrofe, diftance 4 Miles: The Chanucl is very narrow, inot above two Cables length over: On the South fide there lies a Rock called the Stone, and from the North fide runs off a Spit of Sand called the Annot. Between thele two is the Entrance into the River; the Entrance has very good Marks, but they generally take a Pilot at the Mouth of the River ; for, as above, when theWind blows hard offSca, and the Ebb is running flronger our, the Mouth of the River is all of a Breach.

From Montrofe to the Todbead the Courfe is N.E. diftance 4. Ls. All the way between both is good riding, if the Winds are off Shore; but if otherwife the Sea goes high, and makes a foul Shore. From hence, fteering ftill N.E. Ealterly on the N. fide of a fmall Bay, is Dounfit, diftance 2 Ls; the Bay is called by the fame Name: there is good anchoring in 9 Fa the Point S . In the bottom of the Bay is the Town of Stonebive. There is a good Pier built of Stone, where at Spring Tides is 2 Fa. to ${ }_{13}$ Foot Warer, but lies dry at low Water. From hence to Giirdle $N e f s$ the Courfe is N.N E. half E. diftance ${ }_{4}$ Ls; and a little beyond the $N e / s$ is the Entrance into Aberdeetn.

There is very good anchoring in the Bay in 7 to 9 Fa. bringing the Point of Girdlene/s to bear S. and S. by $E$ from you. Aberdeen is a Tide-Haven, tho the River is large, being two Rivers joyned together, and which part the old Town of $A$ berden from the new. The Entrance into this Port is very difficult, the Channel narrow, and the Bar often Chifting, to that no Ship of any confequence ventures in without a Pilot.

From Girdlenefs or Aberdeen, to Buebannefs, the Courle is N.N.E. and N.E. by N. diftance 8 to 9 Ls: In the Midway between both is a tinall Creck, called Newbro', a piace fit to receive Fithing Boats and finall Veffels; and a litele to the Northward of the $N e / s$, is Peter Head, a little within a tinall Ifland called Calk Inch, that is, the Chatky Ifland. Here aretwo little Tide-Piers to receive timali Veffels only, and them but at high Water: But a little on the South fide of Peter Mead, is a large Bay where is very good riding in 8 to 9 Fa. fecurd from Northerly and Wefterly Winds by the Heaa, and from Eallerly by the Ifland or Inch. But if a Southerly Wind lprings up, you liad belt be gone, for you will have a lard Road if it over blows.
E.N.E. from Calk Inch is Ratter-beal, or Kation bath, diftance 2 Ls; 'tis only remarkable becaute of a Ledge of Rocks which runs off N.E. from the Head a Mile into the Sca: 'To avoid which come no nearer to ti a Shore than 12 to $1 ;$ Fa. or keep a high Hill (which you will tec within the Land, and which appears like a Saddle) called Mormonnt, in fight above the Sand Hills of Ratter Head. Normonnt may be lecn 10 or 12 Ls. at Sca.
N. B.

## Directions for Sailing on the Coafts of th

> $N^{\top}$. B. This Bucban N'cfs is the Place from which Ships take their Departure, and keep their Reckonings, and mealure Diftances; as /Winterton Ne/s is in the North, or the Dowins in the South of England.

From this Point of Land called Buchan Ncfs, which is the Eaftermont Land of all Scot land, the Shore falls off Weft, and makes a deep Bay called Murray Firth; and then ftretches to Dungsby Head, which is the Northermolt. This Bay is al. to called the Norts Firth, as that of Edinburgh is called the South. In the bottom of this Bay Weft, lic the two excellent Harbours of Cromarty, and Inverne/s or Innernefs.

Cromarty lics duc Weft from Kinnards-Head, diftant 20 Ls. The River is defcribed already; the Entrance is near a Mile broad, and the Town of Cromarty is on the South fide of the Entrance: There needs no Pilot, for there is neither Slioal or Rock; and when you are in tis a noble Harbour, fit to reccise the Royal Navy, but has no Trade.

Invernefs is a little to the Southward: if you would fail to Invernefs, there are Pilots ready at Cromarty to guide you in, the Entrance being narrow and difficult.
N.E. by N. from the Mouth of Cromarty is Tarbet $N e / s$, diftant + Ls. a bold Shore: Some Rocks lic about half a Mile from the Shore, called the Tlorec Kings; but they are above Water, and to be feen.

There is a Harbour called Tayn, which if you are bound to, you muft take a Pilot at Tarbet Nefs.

From Tarbet Ne/s to '7)ungsby Head, the Courfe is N.E. by N. 18 Ls. This 'Dungsby Mead is the Northermoft Land in Siotland, and is directily oppofite to the Iflands of the Orkneys: The Sca between is a large Channel, called Pentland Fioth.

## Sailing Dircetions for the Iflands of Orkncy.

The Iflands of Orkiney are feveral Inlands that lie to the Northward of Scotland, in which are many good Harbours, and good lailing between the moft part of them : but the Tides run very ftrong among them, and in fome of thofe Paftages the Tides run very ftrangely; the Flood running here one way, and there another, of which the Pilots will inform you, but none of them can tell the reafon of it.

P'omona is the greateft Ifland, on which is the Town of Kirkwall, where the Bithop of Orkney ufed to refide. In this llland are 2 very good Harbours, riz. Dearfound and Cairfton.

Dcarfount licth on the N.E. end of Pomona, juft within the Mulhead; which Head is a high Point of Land, and very remarkable, as you may fec by thic marking of it in moft of our Charts. The Mulsead is bold and fteep too; the Harbour's Mouth lics from this Head a L. and is about a Mile over: Kecp in the middle, for there are fome funk Rocks which lic off from Point Neflin, which is on the Starboard-fide going in. Being paft this loint, then edge to the Nward, and bring Point Nef:

To lai to Stront which $F i$ Tides ; ic mutt be befides, t lings and yet decp bead and and Gret And then threc Inat turn in w S. cud of ware; the E N.E. ar and but: lit they are

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To fail into $W$ Virefound from the Eaftward, you mant go into Stronfi Firth, between the Mullsead and Stronja; in which Firth runs a very ftrong Tide, efpecially ou SpringTides; fo that if you fhould anchor, your Cables and Anchor mult be very good to hold, tho there thould be no Wind; befides, the Ground is foul.' Here you will have great Rip. lings and Breakings, caufd by the flrength of the 1ides, and yee deep Water. Being enter'd into the Firth between the Mulbead and Stronfa, keep oice to Shapinfha, and hail between it and Green Ifland, leaving Sbapinfloa on the Larboard.fide : And then fail between $W$ ire, Egte/ha and Rowiay; which three Inlands make a good Road calld wirefonnd: You may turn in with the Tide, there being no danger; only from the S. cud of Eglicha lic off fome Rocks, of which you muft beware; they lic a Mile off. Bring St. Agnes Church N.E. or E N.E. and anchor in 6 to 9 Fa. Water: This is a good Road, and but little Tide, and is ufed by the Iceland Fifhermen when they are bound out on their fifhing Voyages.
There is a narrow Channcl to fail our at the N . end of Wirefound, between Rowiday and a little Inland calld Scokucholm, where is 4 Fa . at low Water: Kecp in the Middle between them ; but the beft Channel is to go out at the S. cud of Elge-
 fay, kecping neareft to Rowfay; for there lic fome funk Rocks about two Miles off fromi Croskirk on Weftra. There is a Channel between Strunfa, Sanda and Eda, into Stronfa Firth, and fo to Wircfound, and out at Wefira Firth.
I have given you an Account of the beft Harbours in thefe Inands ouly; there are feveral others which are made we of but by fimall Veffels, which I have no Occafion to mention, my Defign being only to direct Ships into the beft Harbours.
Between the inlands of Orkney and thote of Shet Lant, is a fmall Illand call'd Fuir Ifle, at which the Dutch Eaft-Inuiia Ships do ufually flop as they go and come from India.

## Sailing Directions for the Iflands of Shetland.

The firft Illand as you come from the S . is Sumbrough-bcint: Between it and Fitfil-beat are three Bays. The beft is $Q_{2}$ nut:dle Bay, and lics on the E. fide of Fitfil-bead; and is a good place to anchor in 6 to $\$$ Fa. the Sea being open but to $4_{4}$ Points of the Comparfs.

A little to the Weftward of Sumbrouglo-lvead is a fmall Bay calld $W_{c}$ ft Voe, where you may anchor in 7 or 8 Fa. V'ster, and is a good Road for all Winds bur from the S. to the S.E. About a Nile to the Weftward of Sumbroughobead is a Bay calIed Eafl Voe, which lies in S.S.W. wherc you anchor in 3 to + Fa. It is a good Road for all Winds but the N.E. Ay you fail in and our, you muft kecp a Cable's length from the N . Point, which is flat off: At the Entry into this Bay is anorher Bay, which runs in W. and by $N$. where is fhoal Water not above 4 and 5 Foor.

Abour 6 Miles to the northward of Sumbrough-bed is a Northward of Scorland, in which are many good Harbours, and good lailing between the moft part of them : but the Tides run very ftrong among them, and in fome of thofe Parlages the Tides run very ftrangely; the Flood running here one way, and there another, of which the Pilots will inform you, bur none of them can tell the reafon of it.
l'omona is the greateft Illand, on which is the Town of Kirkwall, where the Bilhop of Orkney uled to refide. In this llland are 2 very good Harbours, viz. Dear Jound and Cairfon.
'Dearfound licth on the N.E. end of Tomona, jut within the Mulbead; which Head is a high Point of Land, and very remarkable, as you may fec by the marking of it in moft of our Chatts. The Mullead is bold and fteep too; the Harbour's Mouth lics from this Head a L. and is about a Mile over: Kcep in the middle, for there are fome fuak Rocks which lic off from Yoimt Ne/fin, which is on the Starboard-fide going in. Being pait this loiat, then edge to the N.ward, and bring Point Nef: tin E. and by N . and anchor in 5 Fa at low Water: It floweth here at Full and Change S.E and by S. The SpringTides rife and fall 10 and 12 Foot, and the Neap Tides 7 and 8, in the Harbour. The Einglijh Convoy, and Fifhermen for Iccland, suof commonly make ufe of this Harbour to fill frefh Water, and take in Turf for Firing. Provifions alfo are here good and plenty: All thefe Illands afford much Corn, and fome Cattle; and filh of all torts is very plenty and cheap.

Cairfton lieth at the S.W cnd of Pomona, and is a good and late Harbour, having a good Outlet to the Weftward. There are leveral Channcls to tail in, as you may fee by the Charts. There is a good Channel off of the S. end of Yomona, call'd Hamfound. You fail clote by the Point of Rofinefs, leaving the Ifland Lambolme on the Larboard fide, and to keep the Inand 'Pomona aboard till you come up to Cair found. There is allo a goodChannel between Soutb Ronalfoa and Burra, and another broad Sound between the Iflands of Hoy, Flota, and Suuth Ronallba; alfo between the life of Hoy and Pomona, are many good places to auchor in, where you ride land-lock'd.

The Tides run in and out very ftrong between the $W$. end of Hoy and Pomona, where you will have great Riplings and Breaches, as tho they were fhoal Water: Yet the Clannel is bold and decp, and no danger. In the Harbour of Cairyfon is no manner of Tide, but you ride with great fafery: It flows here at Full and Change S.E. the Spring-Tides thould rile and fall 10 and 12 Foot.

The next good place to anchor in is Kirkwall Road. To go in there, you muft fail between Pomona and Shapinfha, leaving the Illand Elgarbolm on the Starboard-fide, and the Illand Thievefholm on the Larboard-fide. Being about the lland, ftand into Kirkwall Road, and anchor before the Town in 5 to 9 Fa . Water.

There is good anchoring to the Southward of Kirkwall Boy, calld Moono: Bay: There are feveral funk Rocks that lie to the Northward of Kirkwall Bay, between it and the 1fand Gar'jay; and no Stranger fhould fail there without a Pilot.

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A lit calld $n$ and is a About led Eaj Fa . It fril in Point, Bay, above

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lie to the Harbours, : but the thofe Pal. ghere one form you,

Town of e. In this Cairfton. within the ad very reoft of our : Harbour's ver: Kcep ic off from in. Bcing Point Nef: It floweth les rife and n the Harland, mult Natcr, and good and me Cattle;
d is a good ard. There the Charts. nona, call'd ofs, leaving o keep the d. There Burra, and Flota, and ?omona, are and-lock'd. een the W. great Ripr: Yet the Harbour of reat fafety : ides thould

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1 of Kirkfunk Rocks n it and the nout a Pilot.

The firft Inand as you come from the $\mathbf{S}$. is Sumbroughobeat: Between it and Fitfil-bead are three Bays. The beft is 2 Inti: dle Bay, and lies on the E. fide of Fitfll-bead; and is a good place to anchor in 6 to 8 Fa. the Sea being open but to 4 Points of the Compafs.

A littlc to the Weftward of Sumbroughobsead is a fmall Bay call'd $W_{\text {c }} / \mathrm{l}$ Voe, where you may anchor in 7 or 8 Fa. V'atcr, and is a good Road for all Winds but from the $S$, to the S.E. About a Mile to the Weftward of Sumbrough-head is a Bay called Eafl Voe, which lies in S.S.W. where you anchor in 3 to + Fa. It is a good Road for all Winds but the N.E. As you fil in and our, you mutt kecp a Cable's length from the N . Point, which is flat off: At the Entry into this Bay is another Bay, which runs in W. and by N. where is fhoal Water not above 4 and 5 Foot.

About 6 Miles to the northward of Sumbroughobead is a little Inlet, where are two Bays, Lewenwick, and Sandicick.

Levencuick lies in W.N.W. and W. by N. and as foon as the Bay opens, you fail in W. and W. by S. and anchor in 7 and 8 Fa. Water.

Sandwick runs in N. and N. by E. and is a little Bay, where you anchor in 7 Fa. The loint of Nonnaife lics trom Lewenwick about a Mile.

From the Point of Nonnaife lies the Inland of Muf N.E. about a Milc. There is a Channel between the Ifland and the Main N.W.by N. and NN.W. From this Illand is a little Inlet going in N. call'd Et/bs Noe, where is but 10 and 12 Foot Water.

From the Inand of Mufa to the Head of Brafey or W'artbill, the Courfe is N . diftance two Ls. Between the Ifland of Brafey and the Main, is the going into Brafey-found, leaving Brafey it felf on the Starboard-fide. There is no manner of Danger in failing in or out at Brafey-found. You may anchor before the Town of Lerwick in 5 to 10 Fa. Water, landlock'd. The Engli/h Admiral, the Earl of Sandesich, in the Year 1665 , anchored here with the Englifh Fleet. This is an excellent Harbour, and much frequented by the Dutch wath their Herring Buffes; where they have fometimes had 1500 together: Here they have frefh Water, Turf for Firing, and great plenty of good Provifions.

You may eafily know the Going into Brafey found by the Inland of Noffe, which lies to the Eaftward of Brafey Inand; the E. part of which Ifland is call'd Hang Cliff, by the Land ons the Sea-fide hanging over into the Sea. $\mathbf{U}^{\prime}$ art-bill, or Sandawick. bill, is very remarkable; and you may fee it far offat Sea, before you lec any other part of the mland

It flows here at Full and Change, S E. and by S. The Spring-Tides rite and fall 8 Foot, and at a Neap-Tides Foor. Here is but a fmall lide, which comes into the S. Entrance, and runs ont at the N. Entrance; the Ebb Tides are ftronge? at the N . Entrance.

## Dirediost for Sailing from the

Beins: in Rirafo- Fonted, and if you are to fail out at the $\mathbf{N}$.
end calld the Non:b fomd, keep the Main-fide till youre pals'd a fimall Illand calld the Holm of Craifer: for to the Weftward of this Inand lic fome fium Rocks calld Loof Jarbor. Being phesd thete Rocks. flecr away to the Northward; and when you come to the fift narrow Entrance, there is a middlc Bank, on which is but is Foot Water: But there is a narrow: Chamel of is Foot Water, you may kecp on cither fide of it, the Shores being bold: And then you come into a broader place, and then nutrow abun, which is the nothermolt Pafage. Tou muft keep the Main aboard, and go clofe by the finall Ithond or Rock calld Scothed; for there lic fome fink Rocks off from lion fide, as youmay tee by the breaking of the Sea over them towards the Sound of Braficy. Being out at the $N$ end, you have a ģood Chamel between Bioffer Ifland and (i)com! ! inded. quite out iato the Sca.

Betwen the Mand of Brafiy and a Head-land calld the
 Inhabitants $l^{\prime}$ 'es: The Southermoft is call'd 'Dials $V$ 'oc and lies two Miles to the Northward of the Illand Brafey; it is a fimall Bay lying in S.W. by S. two Miles, but not above a Qumer of a Mile broad. About three Quarters of a Mille from Kevepters Point: Which is on the S. fude of the Entrance, there hes a Rock calld Toagrood, which thews it felf at half Tide; it bears from the laid Pome N.E. by N.

A Mile to the northward of Peals $V^{\circ} \circ$ is Laxford $V^{\circ} 0 c^{\prime}$, lying S.W. by S. wo Milcs, much like Teals $l^{\circ}$, whate is + to 10 Fa. Water, good Shoalings, clcar Ground, and good anchoring.
 a Mile in W. by S where is good anchoring in 4 to 8 Fa

Catpond $l$,e is the nothermoft, and the hett of all the Fous; for there you ride Land-lock'd for all Wuds. This is an exceilent Bay, able to recenve a Royal Nayy, where you may anchor in what deph you pleate, from ; to $1+$ Fa clear
 the Northward, but fiom Nombali to Brafey the Ebb talls to the northwards, and the Flood to the contrary, as the Ebb docs from Nomatife to anmbroughobead; fo that the Tides part at Nomians.

## Directions for Sailing from the Downs to and from theace to the Ifles of Scilly;

 Light honfe upon the Foreland bearing S.W. from the Soutb-fiuld-bead. is the fureft Mark, and is known by all Mariners going out by the South.fandhead SS.W.Fiom the Sout' Foreland to Deugy-Nefs the Courfe is S.W. by S. diftance 6 Ls ; but if you find Occafion to go mito Yinsir Road, being takcu thort by wefterly or S.W. Winds, fland in from the for: land S.W. by W. till you bring the

## xiling from the Thames Weftward.

1 out at the $N$. youre pas'd the Weftward arbor. Bcing $d$; and when a middlc B.ank, arrow Chamel ide of it, the broader place, rmott Paltage. : by the finall ne liunk Rocks reaking of the
Bcing out at Biofter Ifland
and call'd the , call'd by the cals $V$ ce, and 3rafiey; it is a not above a ters of a Mile the Eintrance, is felf at half
ford $l^{\prime} 0^{\prime}$, lying here is + to 10 ood anchoring. - W'chfere's I ci, + to 8 Fa .
ceft of all the 'mads. This is $y$, where you to $1+\mathrm{Fa}$. clear Flood runs to he $\mathbf{E} b b$ talls to ry, as the Ebb the Tides part

From Fitfiltusead to the Mland of Colla, the Courte is N N.W. diftance a Miles: And from Colfa to the Ifland St. Ringius, the Courfe is N.by W. 2 Miles. This mand isjoin'd to the Main by a little Ifthmus of Sand, which over flows at fome high Tades. To the fouthward of this Ifthmus, and within the Illand, is a fair fandy Bay, where is a goend Road to anchor, in 7 to y Fa. There is a good Road to the northward of this lithmus, which is alfo good agant cafterly and foutherly Winds.

Two Miles N. by W. from the Inand of St. Ringius, are two Illands call'd Little Hevia and Great Hevra; "between which and the Main is the litele Illand call'd Ma)wick: Ben ecen this Moywick and the Ifland Heira is the Entrance into Clii/f: Sound, which is a tair and clean Sound, and runs in N halt'E. 2 L.s. and a half, having the Illand of Ea/t-Buro and the Ifland Tronzo on the W. and the main Land on the E. It is a Mule broad in fome places, and in other places Iets, as you may lee in the entring : There you may anchor in good Ground, from is to 5 la, at the northermolt part of this Jound. The illand of Trouzo lics within a Cable's lcugth of the Main; ar which narrow place is a Bar, where is but 6 and 7 Footat low Wat $r$, and it and 12 at high Water. To fuil over the Rar keep clote to the Main, and within half a Mile of the Town of Scal. la゙ay.

The beft Chanal to into Scallawy, is to fail without the Inand of Buro, and bring the Caflle of Scalldway N.E. by E. There is a lcading Mark, which is to keep the Callle of Scallaziay juft open of the S. fide of Green Iflund; and this Mark will carry you in between Buro, Oxima, and 'P'apa, Icaving Buro on the Starboard fide, and $O x{ }^{\prime \prime} a$, and $\%$ ' $a \neq a$ on the Larboard-fide ; and fo fail in between Gireen Ifland and the litete Illand call'd Narry, which are not above a Cable's length afunder. Being paft thefe 1flands, run in with the Cafthe open before the Town in 2 to +Fa Water: It flows here at Full and Change S. S. E. and S. E. by S. from Sumbrough.bead to Scallaziay the Tide of Ebb runs to the northward, and the Flood to the coutrary. Here the Variation is found to be 6 Deg. wefterly, and the fame at the Inands of Orkuey.

## Downs to the Land's-End of Cornwall Weflward, Scilly;

Forcland, the ing S.W. from Mark, alld is he Joutb- fand-
the Courfe is fion to go into r S.W. Winds, you bring the

The Shore is flat with a high Beach at the farther part ; 'ris advifcable not to come too near the Shore, elpecially off of Yem/ey, there being a Stone Bank off of that place, on which there is not above 10 to 12 Foot Water. The Mark for it going to the Weftward is, Beachy-bead S.W. and P'cmfiy Caflle N . half E .

Beacly is a high chalky Cliff, being the fouthmoft Point of that they call the South 'Downs, which run from thence thro' the whole W. Farr of Engia"d to Salisbriay Plains, and into

## Directions for Sailing from the Downs to the and from theace to the Illes of Scilly;

 the Souts-fiand-boad, is the fureft Mark, and is known by all Mariners going out by the Soutb.fandhrad S S.i.From the douth Foreland to Dage-Nefs the Courfe is S.W. by S. diffance 6 Ls ; but if you find Occafion to go into rener Road, being taken thore by weflerly or S.W. Winds, fland in from the for: land S.W by W. till you bring the I/ batiay to the N.W. of Deicr Caflte, right over the Hill which cones from Toor, Caftle, or between the Hill and the fquare Tower of St. \%ancs's Cburch in Dover: Then you may anchor in any Depth you pleale, from 8 to ${ }_{14} \mathrm{Fa}$ Alfo off of Folkfon, and betw con the Sonth Battery and Folkfion, you have very good anchoring tor a S.W. Wind ms to 10 Fa .
There is a Sand lics of of ' Doeir, about 2 Ls $S$ from the Sonth Foridand, tis calld the Cimmana: and EN.E from 'Ding Noys it fleteches away N.E. and SW. There is 5 to 6 Fa clote to it all romed, but only a $F$ : upon it at low Water.

Depech or Deige- Aefs, is a low beachy Point running far out to Seaward, the shore is bold, and, with the Wind of Shore, youmay go as near it as you pleale, keeping in 9 to 10 Fa . but if the Wind be off Sca, come not foncar, for there is a very dangerous Bank jufl within the Point, that has but $i_{2}$ Foot Watcr uponit. There is a Lighr-houlc upon the Point.

On the E. fide there is good anchoring with a wefterly Wind ; but if you turn to windward from Dover to get about the Ae/f, youn mut take care of the Rip Raps, a long Sand which fics off of the Nefs, mid-way between ©over and
 from Cidais Cliffs W. by S It lics N.E. and S.W. 12 Ls. in length, but very namow: There is about is Foot Water on it at low Water.

Being about the Nefs, and bound weftward, you open the Port of Rye: 'Tis a Barr'd-Port, madefo by laying the Lands diy, and banking in the Marthes, fo as io check the Indraft, and have no back Water to keep open the Mouth of the Channel; by which means they have choak'd up the beft Harbour on all this Coaft, from the Thames to \%ort/inouth. Some of our Pilots fay the Water rifes here 4 Fa and When you are in, you have 2 : Fa. at low Water; but upon the Bar not above, Foor.

The Fillermen of Rye are the beft Pilots; and if you are bound into the Harbour, tis necefliary to fumm your ielf with ore of them; for it is a very nice and difficult Place.

Erom Densy Nefs to Bereby, the Courte is W.S.W. a Ls.
a Ebb talls to i, as the Ebb ic Tides part
to Soallazaly the Tide of Ebb runs to the northward, and the Flood to the contrary. Here the Variation is found to be 6 Deg. wefterly, and the fame at the Inands of Orkiney.

## Downs to the Land's-End of Cornwall Weftevard, Scilly;

 oreland, the S.W. from llark, and is c Jouth-Jind-he Courfe is on to go into S.W. Winds, ou bring the over the Hill Hili and the : Then you ${ }_{14} \mathrm{Fa}$ Allo and Folkfton, 8 to 10 Fa . S from the EN.E from here is 5 to 6 low Water. $t$ running far ind off Shore, 9 to 10 Fa . or there is a sbut 12 Foot Point. ha wefterly Dozer to get Rap.s, along in Dover and Douer S. and W. 12 Ls. in - Watcr on it
on open the ing the Lands the Indratt, outh of the up the beft Port/imouth. ${ }_{4} \mathrm{Fa}$ and ; but upon
d if you are your felf with Place.
V.S.W. g Ls.

The Shore is flat with a high Beach at the farther part ; 'tis advifcable not to come too near the Shore, efpecially off of $P \mathrm{~cm} / \mathrm{e}$, there beiug a Stone Bank off of that place, on which there is not above 10 to 12 Foor Water. The Mark for it going to the Weftward is, Beachy-bead S.W. and P'emfiy Caffle N. half E.

Beachy is a high chalky Cliff, being the fouthmoft Point of that they call the Soutt) 'Downs, which run from thence thro' the whole W. part of England to Salisbury $P$ lains, and into Giloncefteryhire. To the weftward of the Head lic other chalky Cliffs, which they call the Seven Cliffs, and are very well known.

To the caftward of Beacly you may anchor very lafe under the Head, in 6 to 7 Fa. the Head bearing N. and N. by W. from you: And to the weftward, thwart the W. end of the Secen Cliffs, you may anchor in 7 to, Fa. right againft the $S_{u i}$ indle, from whence you may run along S. into the Haven of Cookmore.

About = Ls. from Beachy, the Head bearing N by W. lics a very dangerous Sand of but 17 Foot Water: Upon this Shoal the Triumpl fltuck, and the Naffiru loft her Rudder, when the Royal Navy was turning down the Chanuel.

At the W. cnd of the Seven Cliffs is Cookmore Haven ; 'tis a Tide-Haven ; the Entrance lies N.W. by W. When it blows a Storm from the Sca, the Harbour is quite barr'd up with Shingle, but opens again by the Land-water. Niw Haven docs the fame exactly, which makes them both be of very finall ute; the latter is 3 Ls. from Beachy W .

Weft of Beacly lies Shorebam, diftance 7 Ls. and between them Brightbelmfton, vulgarly Predleemfion. The latter has no Haven, but the Veffels haul up upon the Beach with Crabs to lie dry; 'tis a large Place for filhing Barks, which go ycarly to North-C'armouth, to the Fithing Fair tor Herring. Shorcham is a Tide-Haven, but the beft of the killd upon the whole Coaft; and Veffels that do not draw above 9 Foot Water, may lic a-float withn the River a little below the Town. The W. Point of the Entrance runs out cafterly farther than the E. Point : fo that when you come from the W. you cannot lee the Opening of the Harbour; but as you come trom the E. it opens, and is tien at a League diftance. You mutt take a Pilot to go in, becaute the Sands thitt often, to I need not deicibe the Entrance.
Wett from Shoribam lies Arundel, diftance 4 Is. The Pilots call it a Tide-Haven, and yet own that Ships ride a-thoat what they are in; which I cannot reconcile All to the "eff ward of shorebam hither is a bold shore, and you may thand in and come to an Anctior any where in 7 to \& Ias but from

## Directions for Sailing from the Tha

Arumdel weftward is a flat Shore, fo that you will not have above 6 to 7 Fa . 2 Leagucs from the Shore.
S.W. by S. from Arundel lies a Bank call'd Eafborough. head, diftance 3 Ls. 'Tis dry at low Water for near a Furlong in Iength ; the whole Sand is a Lcaguc long at leaft : But there is another Sand call'd the $O \because e r s$, very near the other ; they lic ${ }_{4}$ L.s. from the Shore S. by W. and they have but 10 Foot Water on them: And between Eafborough-bead and the Owers, half a League from the firt, N.W. lies a Ledge of Rocks, on which there is not above 6 Foot Water. The Ouiers is a very dangerous Sand, and has been fatal to many good Ships; it ought to be thorowly defrib'd, becaute it lics to dircetly in the way of all our Ships paffing up and down the Channel ; it lies S.E. from Chicheffer Spire, 4 Ls. from the Shore, and 4 to 5 Ls. from Binbridge Point on the Ifle of Wight, the illand bearing duc Weft.

It is a large Sand, for it lies extended 9 Miles in length, and 3 in breadth, in the Middle, but narrow at both Euds; it geincrally lics dry at low Water.

There are a great many other Sands within it, as particularly the Aixens, which lies out from the S. Point of Selfey 2 or 3 Miles to the fouthward, and is alfo dry at low Water: Between the Owers and the Mixell are two other Sands, one to the E. call'd Middle-Ground, and one to the W.call'd the Puller: There are Channels between them all, but not fit for any Veffel of Burden to venture in among them withour a very skiltul Pilot.
Our Direction therefore and Advice to all Commanders of Ships is, to fteer without the Owers, whether bound to the E. or to the W. and to keep a good Offing; that they be not driven upon them by Strels of Weather ; the Direction is very plain and flort.
From Beachy bead to the Ille of Wight the Courfe is W.S.W. 18 Ls If you are bound to the W. kece Dunnofe W half Southerly, to you run a good Birth without all thete Shoals; and there are divers good Marks to avoid them befides : For Example, ( I .) There is ${ }_{12} \mathrm{Fa}$. Water clofe to them, keep in 18 Fa. you are fure to go clear of them all.
(2.) The thwart Mark for the Owers is Cbichefler Stecple, which is a high Spire, bearing N.N.W. from you, as you are on the out-fide of the Sand; it is part dry at low Water.
(3.) If you come from the W. and are bound to the E your Courle is $\mathbf{E}$. half $\mathbf{N}$. ftill keeping, as above, in no Icfs than is Fa. at your Pcril.
There is a Channel alfo between the Owers and the Main, coming from the $W$. and Icading into Chichefler; but you ought to be very well acquainted there too, or take a Pilot, for there are many Sands within, which on that Account we need not detenibe. Within thele Sands is a great Sound, wherein lies the Port of Chichefler, and fevcral other Creeks and difficult Places, which, as above, I refer to tive Pilots, for no Veffels go in

And on $t$ Horfe, on If you chor in st. by the Sca and this is great Sands allo kecp $J$ When you Wight, cal you are in wherc you room enou

The two are worth be avoided of $W$ ight. bead, it is 7 Foot at known upo then you one with 1 like a Pige to 6 Fa . W

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No.mmn' the Eaft flretching r port Poult Filhermen, land.

The the go out of Wight bet juft over a Mill, will Land out tame Mark man's-land Ifle of Wi Ground an

The Buc
have And on the Starboard-fide you have a large Sand call'd the Hor $\int \mathrm{e}$, on which there is but 7 Foot at low Water.

If you would go on for Spitbead, and not come to an Anchor in St. Helens, the leading Mark is to bring a white Tower by the Sea fide call'd Gilkicker, and Stoke C'burch into one; and this is the beft of the Channel, lying between the two great Sands call'd the Hor/e and the No-man's-land; but youmay allo kecp Stoke Church juft open to the fourhward of Gilkicker. When you bring a fimall Village by the Sca-fide on the Ifle of W'ight, call'd Ryde, to bear W.S.W. and Gilkicker N.W. then you are in the beft of the Road at Spithcat, and may anchor where you pleale; 'tis a very good Road, clean Ground, and room enough for the Royal Navy, which has often rode there.

The two Sands above, call'd the Hor $f e^{\prime}$ and $N^{T}$ o-man's-laind, are worth deleribing here, becauie they are very neceffary to be avoided in coming into this well frequented Bay of the Ifle of Wight : The Hor/i is a Sand berween St. Helens and Spitbead, it is hard Ground, and in fome places has not above 7 Foot at low Waicr: When the great white Patch, fo well known upon Port/imouth' Down, is ou upon South-Sca C'altle, then you are within the Sand; keep Portfinouth Steeple in one with the Redoubt on the E. fide of the Town, which is like a Pigcon houle, it will carry you clote by the Horfi in 5 to 6 Fa . Water.

The Eaftermoft part of this great Bank is called the T)eat; ; when the Windmill on the Ifle of $W$ Ight bears S.W. by W. then you are a brealt of the Buoy of the Hor fi .
$N^{\prime}$. B. If you turn from St. Helens between the Hoy $/ e$ and No.man's-lant to go into Spithead, be very careful of coming too near No man's-land; for it is to Itecp, that near it youmay have 10 to is Fa and the next Calt be a ground.

No-man's-land is a large Sand, lying all along Shore from the Ealt quite to the North part of the Bay N.E; it gocs ftretching round from St. Helens Road, almoft as far as Néeport Point: 'Tis called by feveral Names in teveral Places by Fithermen, but is the fame Sand called in the Charts No-man's land.

The thwart Mark for the Spit of No-m.m's-land, as you go out of St. Helens, is to bring the Windmill on the Ifit of Wight between the S.W. and the S.W. by W. when it will be juttover a fquare Field by the Sea fide, and keepong fight of the Mill, will carry you clear ; but it the Mill comes behind the Land out of fight, you will be a-ground upon the Spit. The tame Mark will carry you up into Cow's Road, kecping the 10 . man's-land all the way on the Larboard fide: All within tie Ifle of Wight, where you are clear of the Sands, is good Ground and fate anchoring.
s go in
The Buoy of No-man's-land lies on the N.E Point of the
 Example, (1.) There is 12 Fa . Water clofe to them, keep in is Fa. you are lure to go clear of them all.
(2.) The thwart Mark for the Owers is Cbichefler Stecple, which is a high Spire, bearing N.N.W. from you, as you are on the out-fide of the Sand; it is part dry at low Water.
(3.) If you come from the W. and are bound to the E your Courle is $\mathbf{E}$. half $\mathbf{N}$. ftill keeping, as above, in no lefs than IS Fa. at your Peril.

There is a Channel alfo between the Owers and the Main, coming from the W. and leading, into Chicheffer; but you ought to be very well acquainted there too, or take a Pilot, for there are many Sands within, which on that Account we need not detenbe. Within chete Sands is a great Sound, wherein lies the pert of Clicheffer, and teveral other Creeks and difficule Places, whech, as above, 1 reter to the Pilots, for no Veffels go in without them.

The chicf Reafon why fo many Ships have faln in on thefe Shoals, is the great Indraft of the Tide, letting ftrong into St. Helens, 8 Hours in 12 or more; the latter part of the Flood alto fers into the Road of St. Helens: My Advice is, when you are near this Place in the Night, or in thick Wcather, be very caretul, and keep your Lead going well. In little Winds, or ttark Calms, you thall be drawn in here to Admination by the ftrong Indratt ; which if you find, you muft come to an Auchor in time.

To the Eaftward of the Owers there is another Going or Entrance into Chichefter, leaving Selfey Point on the Star-board-fide: 'Tis the Channel which the Veffels from London ute, who go into Chichefter, Em/worth, and other finall Places thereabout; but'tis very difficult, and none but fuch as are well acyuainted ought to venture in without a Pilot.

Suppole your Ship now to be without all thete Sands in is Fa. Water, as above, and bound to the Weftward, to the Illi if II epht, or to St. Hilens Road: Being in fight of the I/k of Wight, there you will lee a white, ftecp, chalky Cliff, very high, call'd Culier Cliff, or Su'an Cliff: Keep it betore you W N.W. and N.W. by W. it is within 2 Males of $B \mathrm{~cm}$ bidge Peint; when you come within about a League of the Cilatt. Aleer in for St. Helens, but be careful of a Spit of Sand calld henterdere-ledte, that lies away to the caftward of Bendrale Point,: Miles into the Sca.
$\therefore$. $B$. This Bentridge 'Point is the caftermoft Land of the Jhe of Weglit.
W'hen the $S_{u ̈ a n}$ Cliff is lolt bchind Benbridge Point, then you are withu that Spit ; you may run over the Spit in 5 to 6 Fa. Alfo about one l.cague N. by W'. from Benbridge 'Point. lies a fimall sand calldthe Wrar" ", "Yon which there is a Broy abour a Mile trom the Sheri.

If you would anchor in St. Helens Road, bring St. Helens foneb to bear W.S W. from you, and then you have $s$ to S.a. Water; there is a timall oo\%y Bank in the Bay of St. Manias, which at a low Ebb has but at Foot Water on it:
the Ealt flretching
port P'ound Fifhermen, land.

The thw go out of Wislot bet juft over a Mill, will Land out tame Mark man's-land Ille of $W i$ Ground and

The Buc Sand : fro the Mill is little more Stoaks Bay you may ta Cowis Ro Wight; th of its kind : called the moft dry at for all the where the tween No-m one called they are out to the Weft wards the m mill S. from

From Cos is the fame. Road called bring the Cartle S by where you which runs and the m: by $S$. for th will fee be plain above them. Op by kecpus Tide of Eb Necedl 's, an low Warer: from you: but keep of

For cep in ecple. ou are your than
the Eaft quite to the North part of the Bay N.E; it gocs flretching round from St. He lens Road, almott as far as N'teiport Poout: 'Tis called by feveral Names in feveral Places by Fifhermen, but is the fame Sand called in the Charts No-man's land.

The thwart Mark for the Spit of No-man's-land, as you go out of St. Helens, is to bring the Windmi!! on the ! hi' of Wiglot between the S.W. and the S.W. by W. when is will be juft over a fiquare Field by the Sca fide, and kecping fight of the Mill, will carry you clear ; but if the Mill cones behind the Land out of fight, you will be a-ground upon the Spit. The lame Mark will carry you up inro Cows Road, kecping the Ao. man's-sund all the way on the Larboard fide: All with in the I/le of Wight, where you are clear of the Sauds, is good Ground and fafe anchoring.

The Buoy oi No-man's-lulld lies on the NE. Foint of the Sand: from thence, ftecring N.W. by N. and W.N.W. with the Mill in fight, will carry you into Cowis; and kecpin! a little more Northerly in the lame Courfe, carries you mino Stoaks Bay, or into Hainton IVater: But for all chote Waters, you may take Pilots at St. Helens as you find occafion.

Cous Road is the beft Harbour on the infide of the Ifln, of Wight ; the fair way out to the Needhes. is the eafieft palfuge of its kind: there is a hard Shoal in the fair way to Couns, 'th called the Bramble, and reaches thwart of Newport ; 'tis almoft dry at low Water: Kecping clote to the Ifland avonds it. for all the Shore of the Ifland is bold, from Aewport Point where the No-man's.land cuds, almolt to the Necedles; between No-manis-land and the Brambles lic two fimall Sands, one called the Ryde Middle, and the other the Middle; but they are out of the way here. When you come from St. Helcus to the Weftward, you go within them a great way, kceping t\%wards the main near Stoak's Bay, till you bring the $/ F^{\prime \prime}$ 多t Windmill S trom you, or S. by W, and then you are paft the Rydc.

From Cow's to Hurf Cafle is a fair way, or from Yarmon:'/ is the fame. Near Hurf/ Caftle, a little to the N' E is a good Road called \%ack in the Basket; if you would anchor there,
 Cattle S. by W. or SS.W. and you are in the beft of the Road: Where you have 7 to 8 Fa. and out of the Serean of the Tide, which runs very tharp here, elpecially becween the midway and the main. Being patt the Callte, fteer away bodlly $s$ w. by S. for the Ebb, S. or S. by W. for the Noedles, "hich you will tee before you; they are lietle tharp white Recks, and plain above Water ; in the fair widy you muft keep ctoce to them. Oppofite to themare other Roeks.calted the Sh, $2!$ : : by kecpus clote to the Necal's you avoid the 1 bows , the Tide of Ebb lets on them, as the Tide of Flood does on the Niedl $s$, and borh run vey flrong: You have here of $=1.2$ at low Warer: When you are our, and the Aceides bear NE. from you : ' to ; Ls. the Ground comes rocky and thagly ; but keep off in 25 to 30 fa .

> N. R. Ne:uport lies fom Hurfl Ce h/e E.N F. datance ncar 4 Leagues.

If you come from the Weftward, and are to go in at the Necdles, take the following Directions: You will know the going in by the high white Land, and which you are to leave on your Starboard fide ; it is the Weft end of the Ifle of Wight: You may run boldly in with the Land, till you lee the Needle Rocks, and then kecp clefe to them, obferving the Tides, as intije Directions for coming out. Note, That there is an Indraft that fets in from the Necdles into Pool; which Indratt hath haul'd many Ship into Fre/h IVater Bay: but I am very duie that no Ship can run alhore into Fre/hlWater Bay, if they did but mind the Lead; the neglect of which hath becu the lofs of many a good Ship: Kcep in 25 or $j^{\circ} \mathrm{Fa}$. Water, and you need not fear the ludraft of the $W$ ight.

If you come from the Weftward, and would come into St. Helezs on the back of the Wight, you muft run far enough to the Eaftward, to bring the great white Patch upon Poff Dowin N. by W. elfe you will not go clear of Renbridge Ledge ; and bring St. Helins Church to bear W. by N. half N. 2nd open of the Red Cliffs.

Of the Courfe of the Tides, and the Depthof the Channel be$t$ ẅecn Dover and the Ifle of Wight.

Between Dover and Dengy Nefs, and likewife thwart of the Nefs, a S.S.W. Moon maketh a full Sca ; in the Channel off Hinchelfia, a S.by E Moon; at Beaiby by the Shore, a S S.E. Nioon; at Spithead a S.E. by S. Moon; in the fair Way thwart of it, a South Moon.

In the Offing, from the South) to the North, Foreland, it runs half Tide; from the Soutb Foreland to Tengy N'f/s it runs half Tide and half quarter; from the Ne/s to Fairlee it runs half Tide; and from Fairlee to Beachy onc quarter Tide under another. From Dengy Nefs to 'Dover, the Flood fers NE. by E. and the Ebb S.W. by W; from Beacly to the Ne/s ENE. and W.S.W ; at Beachy by the Shore, and before the $S_{i}$ ren Cliffer, the Flood fers E. by S. and the Ebb W. by N; from the /'ight to Beachy the Flood tets E. by N. and the Ebb W. by S .

Between I'inchelfea and Picardy in the mid Channcl it's 26 and 27 Fa. deep: and in fuch depth you may fee Fairlee and the South Foreland.

W'ithin Reachy thwart of the Seren Cliffs, its 16 and 18 Fa. deep; and mid Channcl between England and France its 26 and 28 Fa . If you would anchor in Frefowater Bay, bring Tunnofe, which is the Southermoft Point of the Ifle of Wight, E. by S. or E. by S half S. there you lic in 16 to is Fa. the Necdles bearing N.W. or. N.W. half W. from you.

C/rifil Church is a little bar'd Haven, where fmall Veffels may run in at high W'ater: 'Tis the Mouth of the River Avon and II: llte, which come down from Salisbury, and are made mavigable almoft to the City by Barges, Єुc. 'Tis about 2 Ls. from Ihur/t Ca/the, the Courfe W. Northerly.

Point of La the Shamble Point a Sail'

Portland pling of $t$ Tides (whic of Sca Cata Ground whi great Heavi grat Scas; danger of $f$ Miles off of Eaft as far a

Within' one long L barrd Have Weynouth Larboard fic Stonc Pier $\mathbf{v}$

There are land, which rumning to India Ships were in agr Race, and
N. B. of and of $t$

The Rac may run be many Dang and driven 4 abundance Bcach, whi the Illand, If you arc b as toon as ward; and be paft the you will al! fair up the

But if hard at $S$. U Ruce and t Slack or T N.E. Eafte, and lie then efcaped the

But if

## from the Thames Weftward.

Point of Land of Portland, you will touch the very Edge of the Shamble's on the infide; but if you keep the Caftle and the Point a Sail's breadth open, you will go clear

Porthand Race is a terrible place indeed; it is a violent rippling of the Sca, occafion'd not by the meeting of two Tides (which is the vulgar Error) but by Overfalls and a kind of Sea Cataracts, in the Botrom ; by which unevenuets of the Ground when the Sca is high, the Tides being /trong, there are great Heavings and Breakings in the Water, which makes very great Seas; and as the Winds may be, Ships are fomerimes in danger of foundering there. This Rippling begins about two Miles off of 'Portland Bill onc Mile Weftward, and reaches Ealt as far as St. Albays or 'Pevercl Point.

Within 'Portland, bearing from the Road N.by E. diftance one long League is Weymouth, a Port of good Trade, but a barrd Haven ; there is very good Riding without the Bar in Weymonth Road, and at the Point of Meicomb Regis on the Larboard fide; the Weftermoft Point going in is a Mole or Stone Pier very ftrong, with a Battery of Guns upon it.

There are two Lighthoulcs lately crected on the Bill of Portland, which have been found very lerviceable in cafe of Ships rumning to the Eaftward; and were the faving of two Eafl India Ships a very few years ago, who tho outward bound, were in a great Storm and in a dark Night driven too near the Race, and in danger of being on Shore upon the Bill it delf.
N. B. Portland Bill is the Southermoft Point of Land of the Ifland, ranning out a great way into the Sea, and is by tome thought to be the moft Southerly Point of the Illand of Great Britain.

The Race is two Miles without it, ftill farther South ; Ships may run between them in moderate Weather, but there are many Dangers here about, and efpecially the being imbay'd, and driven upon the Beach to the Weftward of Portland, where abundance of good Ships have been loft; 'tis a fteep flone Beach, which runs away N.E. from the Northermoft part of the liland, making a large Hook, with a Bay almoft 7 Miles. If you are bound up the Channel from the Weltward, take care, as loon as you fce Portland Lights, to haul off to the Southward; and when you have the Lights both in one, you will be paft the Race: and then you may go away E. by S, and you will allo avoid the Sbambles mention'd before, and to go fair up the Channel.

But if you cannot weather the Race, and the Winds blow hard at S.W. or thereabout, put in at a venture between the Race and the Bill of Portland, efpecially if you can have a Slack or Tide of Ebb; and when you have held on about a L. N.E Eafterly, fteer away due N.E. by N. for Porthand Road, and lie there for better Weather; and remember that you have eccaped the greateft Danger in the whole Linglifh Channel.

But if you can by wo means weather the Bill, you mult
from the $W$ Wght to Beachy the Flood lets E. by N and the Eb W. by S .

Between I'inclelffa and Picardy in the mid Channel it's 26 and ${ }_{2} 7 \mathrm{Fa}$. deep: and in fuch depth you may fee Fairlee and the South Forcland.

Within Reachy thwart of the Sereen Cliffs, its 16 and 18 Fa. deep; and mid Channel between Enghand and France its 26 and 28 Fa. If you would anchor in Frefbwater Bay, bring Dunnofi, which is the Southermoft Point of the Ifle of Wight, E. by S. or E. by S half S. there you lic in 16 to 18 Fa. the Necdles bearing N.W. or. N.W. half W. from you.

C/rrijl chourch is a little bardd Haven, where fmall Veffels may run in at high Water: 'Tis the Mouth of the River Avon and I/ illie, which come down from Salisbury, and are made navigable almoft to the City by Barges, 豸̋c. 'Tis about 2 Ls. from Hurf Cafth, the Courfe W. Northerly.

Duc W cft from the Needles is the Entrance into the Harbour of Pool, diftance ${ }_{5}$ Ls. it is a barr'd Port, but has 10 to in Foot Water on the Bar ar low Water, and does not flow above $\rho$ to 6 Foot upon the Flood Tide, but then you have two Floods in every Tide; a S.E. Moon makes full Sea, and a $S$ by $E$. Moon makes the other Flood; this is occafion'd by the ftrong Ebb out of the I/le of Wight.

If you would go into Pool, Wareham, Purbeck, or other places, for therc are feveral finall Ports within the Bay, take a Pilot at the Bar.

Between the Entrance and Studland Point there is good anchoring in Studland Bay. S. of Studland SPoint is a little Bay called Sandeuick, or Sunwich; and S. of the Bay, a Poiut which runs far our, called St.Albans, and ordinanly Peverel Point, or Pererly, as fome call it.

From Peevely, or Peverel Point, to the Weftward, the Land is high, and is called the high Land of St. Albans. About a Ls. or more to the Weftward of 'Peverly 'Point, is Kembridge Ledge, which lies off from the Shore S. by E. into the Sca a Mile and half: It has at that diftance but 6 Foot at low Water, and three quarters of a Mile off $1_{3}$ Foor, and a Mile off 4 Fa. There is another Ledge that lies right off from St.Albans bead, about three quarters of a Mile off Shore, and hath but 12 Foot at low Water; is lies between Kembridge Ledge and Peverly Point.

Four Leagues from Peverly Point is a fmall Cove called Lutziorth, where fmall Veffels may ride with almoft any Wind, but there is not above 12 to $1_{3}$ Foot Water.

From the Weft end of the Wight to Porthand Bill, the Courfe is W. by S. and W.S.W. diftance ${ }_{11}$ to ${ }_{12}$ Ls. but if you are at Sca, then the Courfe is from Dunnofe W. and by S. 15 to 16 Ls.

Yortland Road is a very good Harbour, perfectly landlockt from Wefterly and Southerly Winds, very good holding Ground; but you muft take care to avoid a Sand called the Sommblis, which is a long hard Sand off of the S.E. part of 'd'ortlund: If you bring Weymouth Cafle on, upon the Eaft

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But if you can by no means weather the Bill, you mult trult to your ground Tackle, and come to an anchor. 'Tis true, you have bad Anchor-hold in the Bay, being all loofe Ground; and many Ships have been driven from their Anchors there, and gone right athore: If then you are broughe to the like Diftrefs, and fee no Remedy, obferve that between Burton and Chiffel the Beach is ftecp too, and where it flows nine hours, and ebbs but three: If you mult go on Shore, do it there if polfible, and run boldly upon the Beach.

When you are on Shore, take care not to let your Men jump immediately on the Beach, as is ufual in fuch Diftrefs, in order to fave their Lives; but if poffible, and your Ship does not immediately break in pieces, have Patience for five or fix Seas, and then you will find the Ship fettle in the Beach, and Ihelter you from the Force of the Seas; and you may fep leifurely upon the Beach, and get off; whereas if they inmediately quit the Ship, they are incvitably loft by the Rage and breakings of the Sca.
$\boldsymbol{N} . B$. The two Lights upon Portland ftand N. and S. of each other, and bear N.W. by W. from the Sbamble's.
N. Weftward from Portland in the Bay, but beyond the Beach, lies the Port of Lime, diftance 7 Ls. Here is no River or Creek, but a ftrange artificial Harbour built out in the Sca, and quite diftant from the Shore, only as it is joined by the Buildings. It is a Stone Pier with a Ba/in within, for Ships to lie dry; there is a Key to load and unload, and the Wall which joins it to the Shore is thick enough for Carts to go on to the Key, to fetch and carry Goods from and to the Veffels.
$N . B$. The Shore is ftony and foul, and Ships could not lie here if this Haven had not been built.

The next Port is Exmouth, going up to Top/ham and E.r. eter; the Courfe from Porthand is W by N diftance 12 Ls. fay fome of our Pilots, others fay 15 Ls. Ithink neither of them are right; the middle reckouing of 13 Ls. I think the trucft.

## Direitions for Sailing from the

The roing in to this Place is very narrow, having Rocks on the E. hide, and Sands on the Weft; at low Water there is but 6 and 7 Foor on the Bar, but at high Water 16 and 18 Foot Water. Hete are always Pilors ready to come off, and no Man ought to venture into the Place without one.

Between 1:xmouth and Torby is Tinmonth, diftance five Miles from the firft, and near as much from the laft: 'tis a finall Tule-Haven, and the Town was burne by the Prones in the late War.
Torbay is a well known Place, famous for the landing of King /Itllam with the '/metch, Army, in the Year 1688; 'tis a fpacious large Bay, and able to reccive a very great Flect, as appeard at that rime, when it had 50 Men of War, and near soo Sail of Tranfiperts siding in it at once: The Ground is dean, very good Anchor-hold, and the Road lafe; eljecially for Northerly, Weftcrly, and Southcrly Winds, provided they are not to the Eaftward of the S.

Togo into the Bay, bring the Weft Point, and the Rerry S. by L. or S.S.E. from you; you have 7 to \& Fa. Water any where, and may take what Birth you think fit. There are two Piers in the Bay, one called brixamicion the S. fide of the Bay, and Car or Tor Kicy on the North: Small Veffels may lic elsfe to them to take in Goods, but they mult lie dry at low Watcr. Likewite on the N.E. fide of the Bay chere is a finall Tide-Haven called Tor Monnt. The whole Royal Navy has often rid in this B.y, with grcat fatery, nothung but a S.E. Wind is uncaly to it.

The Weft l'oint of this great Bay is called the Rery, which rums out far S. into the Sca: Off of the Eaft Point is a high
 off ot the Bins mother called the Bery Rock; but they are both out of the far Way or uftial Enermince into the Bay.

Two Ls. to the Weftward of the Berry lies the Port of 1) artmouth: the going in is very narrow, between two high 1 ands; in the Narrow it is but juit a Cable's lengeth over. On the W'ell fide is a Caflle, and on the Eaft fide a Block-houti: The soung in and out at this Place is very dangerous, except the Wind blow right in, which are Southerly Winds; for if the Winds be cither Eafterly or Weflerly, then the high Lands which lie off on cach fide, caufe Overflaws and Calms, 1 ometumes blowing in and prefently right out again; which hinders a Ship in turning in or out, by putting them aftays mawares. There are always Boats ready to come off, which are good Boars to row, and arecalled Tow Bonts, and are very ferviceable in towing Ships in and out, and to brong then altays: "ithour which Boats'tis very dangerous going in or our. The northicrly Winds blow right out, and the foutherly U'inds right in ; but the cafterly and weflerly Winds blow with Flaws and Calme in and ont. When you are gotten in, it is a moft excellent grod Harbour, and can contain the Royal Navy. There is allo good anchoring without the Harbour's Mouth, in fuckond collach Dertmouls biense.
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were all duhth to pieces againft the Rocks, or fonader'd as they rode in the Sound, the third Noght after chey arrived, and moft of the Peopl; loft ; only one Ship was tavad by ruming, or rather driving no Catwater ia the dark, and in the height of the Tempeft.

The $M e^{*} w^{-}$-flone on the E and the Ram-head on the W. make the Sound of l'tymoutb; the W. fide is the belt going in, and the common Mark for anchoring in the beft Ground, is to bring Amint Eidgecomb Honfe jult open, and the 12 Cithy Ifedpe right up and down: Another Mark, and which is connted ftill better, is 'Plymouth Cbarch upon the W. end of the Citadel, with St. Nicholar Illand N.W. and Perilec 'Yoint S.W. there you have 7 Fa. clean coarte sand; and a little to the northward of 'Pentic Point is Cathfon Bay, a fair fandy Store, good anchoring clote under the Jand, in g to 10 Fa .
N.W. by N. from the Alow-fititc, diftance one Mile, is the Stous-flone; and W. of that of a Mile, is the Shug-rock, or as tome caii it the Tinkers Suecr's : but there is near 3 Fa. on it at lowWater. N. by W. from the Tinker, lies the Clondifly, or as lome call it the Sharit Rock, called to from Sir chundely shovel, who order'd a Buoy to be put upon it ; it lies funk in ag Foot Water. When you fee Alakers Steeple over C'allfon W.N.W. then you are a-breatt of the Sboech.

I nead not give the Marks for running into Cataitit or Ham Oazt', becaute, if you are wite, you will call for Pilots to carry jou in; but the Eidilyfoime being without all, requircs to be exactly detenbed :

The Eiddyfione hes S.S.W. from Plymont is Sound; the N.W. part of it is above Water at the Ebb of a high Spring-Tide appearing abou! 6 or 7 Foot high. The W. fide is bold and fleep; but the S.S.E. part of it is foul for about halt a Mile off; and ar low Water there are feveral other Rocks wheh fhew themetves above Water. The man Rock lies from the Start W. a lietlefoutherly, and from the Ram-hacat S. by W. a little wefterly, about 3 l.s. or rather more from the Rambeced. You have $=0$ Fa. Water clofe by the Ram-biad, and between the Head and the Eddyyone 35 and 36 Fa and in the Stream of the Eddy/ione to Fa. Keep without to Fa. Water, and you cannot come foul of the Eddy/ione: It is high Water here at the Stone, when it is high Water at Plymoaty. From the Start to the Lizaid, in the Offing it flows half Tide, that is S.E. by E. It is half Flood at $\dot{F} / 5 \mathrm{mon}$. $/$, before the Flood gets to the caftward in the Offing.

Weft from the Rizm-lead, a lictle foutherly, lics the Haven of Foy, diftance 7 Ls. It is cafily known, lying in betwecn two high Lands; and as you need no Pilot to carty you in, take the following thorr Direction. On the W. fide of the Entrance is an Old CiJurcij, and a Caflle; and on the E. fide the Ruins of a Cburch; the Mouth of the Port a Cable's Icnerth over, a clear Chamel, and no danger at all: You may ancion before the Town, or run up above it. It has been call'd a B.arr'd-Port ; but if it ever was fo, the B.ar is worn oun, and
bscad. between Stream and you here at 1 the Star is S.E. b gets to til

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Weft from the Ram-liead, a litele foutherly, lies the Haven of loy, diftance 7 Ls. It is cafily known, lying in between two high Lands; and as you ned no Pilot to carry jou 10 , take the following thort Direction. On the W. Fide of the Entrance is an Old Coljurch, and a Caffle; and on the E. fide the Ruius of a Clumels; the Mouth of the Port a Catle's Iength over, a clear Chamel, and no danger at all: You may anchor before the Town, or run up above it. It has been call'd a Barr'd-Port ; but if it cuerwas fo, the Bar is worn out, and you may depend upon it, there is no lefs than 3 Fa. Water at the Entrance at low Water, at the loweft Ebb; and near o Fa. at high Water. Here allo you may lay a Ship on thore to walh and tallow, ftop I.cates, Efc. It is a very lafe Port.
S.W. from lob, diftance 4 Ls. is the Deadiman; it bears from: the Lizard N.E. by E. diftance 7 L.s. and from lialmouth N.E. diftance 3 Ls. Between loy and the Diadinan lies St. Blazy's Bay, the Point call'd redmont making the W. fide of it. Halt a Milc from this Point lies a Ledge or Rocks call'd the Canneys, which appear above Water at half Tide; there is a Paffage within them, but it has but 7 Foot Water, io 'tis only fit for limall Veffcls. N.E. from the Deadman lics alfo a great Rock above Water, call'd the $\mathbb{V}$ inberad Rock; it lics a League from the Deadman, and a Mile from the neareft Shore: Small Veffels, and fuch as are well acquainted, go within it, but 'tis hazardous to Strangers.
S.W. by W. from the 'Deadman, diftance; I.s. is the Entrance info Falmout ib Havern: Between them, 3 or 4 Miles S.W. from the Deadman, is the Gull Rock, dittance from the Land $1 \div$ Mile : And at the tame diftance W. by S. lies another call'd the Grey Rock; they lie about a Mile from the Shore, and 7 or 8 Mile from the Mouth of Falmouth Haven NE. They are both above Water.
l'almonth Hareit is a valt Inlet of the Sea, and may be call'd a Haven full of Havens; it lies between the Dididman and the Lizard; it may be known at Sca by Pendennis Cafili flanding on a Hill at the W. fide of the Harb ar's Mouth. There is a Rock with a Pole upon it, at aboue the Midure diftunce from the W. Shore cf the Entrance of the Harbour ; 'tis call'd Falmoutl' Rock; and on the E. lide of the Entrance ftands St. Maws Ca/fle.

The Entrance into Fialmouth is by feveal Channels ; when entred, there are to many feveral Roads, that reterring to the Pilots, 'tis needlefs to deforibe them, they are all late and good.
S. and by W. from the Mouth of Falmouth, ILaren, lie the Mannacles, diftance 2 Ls. thefe are a Clufter of Rocks, tome * D above
above Water, fome under. Atrecthing almolt a I cague into the Sea caftward: If you fal from Falmoth with the llood S by E. you go clear of then: ; if with the Ebb you mult go away S.S.E. or SE. by S.

Helforid lics between Falmomes and the Manacles; 'tis an open decp Somnd, and lics duc E. and W. As yougo in, kecp the fair Way, a little more to the S. Shore than the N . tis all faic and good on that fide. A hatle to the E. of helfiched is a Bar, with g Foot at low Water.

The Lizard ftrecthes out S. by W. from Meiford: right off of the Point lies a Clufter of feep Recks calld whe Sealss; they firech into the Sca $S$ from the Liziod atout a Mile, and are fteep too, having is Fa. Water clofe to them: Therefore kecp at agnod diftances $S$.
N.W. from the Lizard lies Momnts Ba, diftance 6 Ls 'tis calld fo froma high Mount ftanding in the Mudde of a fmall Innend or Rock on the E fide of the fiar, and which is calld the Combl Mona: on the Top of the 1 Nount is an old Cafte, and on the N.W fide ot the llland a finall Pier : 'tis not above a quarter of a Mile trom the Shore, and they go over dyy at low Water; and about; to + Miles from the Monnt $S E$ or SE. by S. there is a parcel of funk Rocks calld Eingland's. Ker; they have abour 8 to g Font Water on them at low Watcr. Alio on the NW. fide of the Bay is "enfinme', where there is a lietle Tide-Per, only for fimill Veficls, and dry at low Water

Orer againt the Morat W. is Cozer's Lake, which is a good Bay for anchoring ; becaute bringing tome fimk Rocks calld Car mbafe, and Louldozs SE from you, they break off the Sca: They bear from the corrch) of St PaulN.W. by W. and W N.W. a quarter of a Mile trom the W. Shore: Bring St. '' nul's Church S.W. by S and St. Clement's S. and $S$ by E and Penfance vice N . and you will have + to 5 Fa. at low Water, good Ground and lafe Riding. Youmay come In an anchor m Mounts Biav amoof any where from 7 to $=0$ Fa. Water; the Spring-Tides rile above 3 Fa. Almoft all rhe way foom the Mount to the Lizard the Shore is full of Rocks.

From this Bay to the Lands-cnd is all a bold Shore, diftance I. .s. Ahout a Mile and half trom the Point duc S. is the Rurndie Stone, a Rock which fhews above Watcr at half"Tide; thin' it is to near the Land, you have 20 Fa . Water betucen. from the Lizard to the Landfired the Courte is W N.W. diftuinceg Is.
A little to the weflward of the Lizard is a fmall Ifland wha (iburch uponit, calld St, Clemont's, which is the Mark tor the teveral Anchorings in the Rioy, as above; it lis juft before the hete Town of Momfloble, where there is a large Bay and good anchoms, in - to 8 Fa, and is a lafe Road, ex. ecpe the Winds are at SI: or IES E which blow right in, and of conerfe make a high Sca

The (iulf is another Rock, but always abore Water: is I:cs from the Landscud Yount S.W diftance; I.s 'tis fo flecp too ob cyery fide, that there is qo Fa. Water within a quarter
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Tho WS W r-L.s. out $W$. the M them i Chann the $B$ Sinps than!, the St

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which is a fimk Rocks they break am $N$ N.W. by W. Shore : cht's S. and $\mathrm{c}+\mathrm{to} 5 \mathrm{Fa}$. umay come $a \rightarrow$ to $=0$ Fa. all the way Rocks.
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c Water ; it 'tis fo ftcep in a guarter
of a Mile of it; keep the outward part of the Lome-Ships on the Brecf(int Ifland, that carrics you juft upon it; but open them a Hand-fpike's length N.W. you go clear.
When you come from the Sca, and firft make the Lands-chd E. or E.N.E. you will fec two round Hills upon it, and upon the higheft of them a Spire Stecple; as you come on, you lee another spare, upon the lower Ground on the outmolt End; By thete Marks you are to know the Land, and are fure you are right.

At the Extremity of the Land, lic fome Rocks calld the Long-Ships, a litele N.W. by N. from the Toont at the Rundle Stone duc S. you may run within them on cither fide; but the N. fide is beft and broadit, and there you may anchor in 8 to 9 Fa. only avording a timk Rock which lics clote to the N . Pome of the Land.

The Iflands of Scilly lie from this Point calld the Landseend W S.W. dultance 9 I.s. and from the Lizard-Point duc W. 16 to r-I.s. The Long.Ships are high Rocks above Water, Itretching out W. 2 Miles from the Land; 'ts all foul between them and the Main, tho otherwife Water enough. To the northward of them is Whatiand Bay, where linall Veffels coafteng from one Chanes to the other, oftencome to an Anchor: and beyond the Bay is the Breefin Iflush. The Courfe trom the Long$S$ inps is N.N.E. diftance almolt 2 I.s. 'Tis a little, high. round Ithand, and bears W. from Ciape Cornwall about a Nile from the Shore.

Wett half S from Cape Cormasall, diltance 6 to 7 Ls. Jie the Sëen Stones; thete are Rocks allo above Water at half Tide; they lic in length N W and S.E abour 2 Miles and half, and a Mile board ; they bear from St. Alartm's-bead in Scille N.E. diftace; I.s. they are very dangerous, becaute they lic to much in the way.

> Oiforations of the Setting and Parting of the Tides at the Lands end of England.

The firf Place for the Beginning for the Flood in the W. of Cugland is at the Loug-Shops; at this Place the man Land divides the Srream, one part fetting to the Northward, and the other to the Southward; at Full and Change the Flood begins E.NE. and fets nenc Hours to the northward; and from the Long-Ships to the Rundle Stone and Cintf; the Tide Eets SE, threce Hours: fo that 'tis high Water by the Store before the Hood fets to the fouthward. At the seion Sornes, and between Sielly and the Lands-end, the firft of the Hood fets N.W. and conds in the N.E. nine Hours; and the Stream begins to fet to the louthward at high W.ater, wheh is E.N.E. a-hore.
Its high Water at the Gulf at Full and Chanģe E.N E. and the Tide lets to the caltward thll halt Ebb a-Hore at Alonites Bag ; the N. Stream begus in the N.W. and ends in the N.E. ninc !Hours, thll it is lugh Water a-fhore.

Water; the Spring-Tides rile above, Fa. Almof all the way from the Mount to the Lizard the Shore is full of Rocks.

From this Bay to the Lands-cnd is all a bold Shore, diftance 4. I.s. About a Mile and half from the Poiut due S. is the Kitu die Stonc, a Rock which fhews above Water at half Tude; tho' it is to near the Land, you have 20 Fa . Water betwecn. From the Lizard to the Landfend the Courte is W N.W. diltance 9 Ls.

A little to the weftward of the Lizard is a fimall Ifland wheh a (ismerb upon it, calld St. Clement's, wheh is the Mark for the leveral Anchorings in the B.ey, as above; it lics juth before the litule Town of Moufcholi, where there is a large Bay and goodanchonng, in - to ? Fa and is a fafe Road, except the Winds are at S.L. or ES E. which blow right in, and of conuric make a high Sca.

The Giulf is another Rock, but always above Water; it lies from the Landsend Po:nt S.W. duftance ; I.s. 'tis to Itecp

## Diretions for Sailing to and from the JJlands o Sounds and Paffages among thofe Iflands, and



HE SE Inands lie to the weftward of the Lands-end of Comarall, 9 or 10 Ls. diftance: They are many Hlands, or Rocks as big as Inands, the Number hardly known: Younay fee them 6 or 7 Ls. off. The S.W. part of thefe Inlands are very rocky, but very bofl. On the fouthermoft big Ifland, there flands a high Light-houfe, areted by the Corporation of Trinity-bonfe at '/feptford; 'it is a molt excellent Light, and may beleen 6 or TLs. off. Before this Light-houfe was erected, there was not a Wiuter but there were fome Ships calt away; but fince the erecting of it, there hath not a Ship becn loft but by Ignorasce: So that Navigation is muchoblig'd to the great Care of the Trinity houle Mafters in crecting this $L$ ight.

The principal Road for Ships is called St. Mary's Road; and the belt and molt common way to go into it, is St. Alary's Sound, between St. Alarv's Iflandand the Ifland Giugh: Beiug to the caftward of that illand, you muft run in at the S. fide of St. Mary's: You may know St. Mary's Ifland by the Cafth, and two Windmills which fland on the S.W. part of the Itland; ran boldly in with the Mills, kecping clofe by St. Ahiwis fite, which is very bold. In the fair Way between $P$ enmes $W_{1}, \ldots$, and the Gugh, lics a Ledge of Rocks called the ahumet Ledge, on which is but fix Foot at low Water ; therefore keep clote to "'enmis, and then fleer away for the Migh Lant, on which ftand the Caftle and thindmills, giving thicm a tair Breth to awoid the "'colpuck, which is a funk Rock clote by the S. cud of tine Ifuth. You may boldly fail within a giater of a Mile of the Hes, , from the Woolpack to the Sireen: and that will carry you clear of Burtholomesw Ledse. Which hath but fix loor at lew Water, aud lies S.S W. from
the $S$
Gingh are ab Spani, of San the is whet and yolla to yo from II'med l'alues tholom make the $S_{t}$ Rock ora q in 5 may great Th fels lic wath, Cro is aba Foot Tide ; which over $t$
oft all the wa of Rocks.
hore, diftance due $S$ is the $r$ at half Tude; 'ater between. c is WN.W.
a finall Inland h is the Mark 6 ; it lics juit cre is a large afe Road, exright in, and
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The firft Place for the Beginning for the Flond in the W. of England is at the Loug-Sheps; at this Place the main Land divides the Stream, one part letting to the Northward, and the other to the Southward; ar Full and Change the Flood begins E.N.E. and fets nine Hours to the northward; and from the Long-Ships to the Kundle Stone and Citulf; the Tide fets S E. threc Hours: fo that 'tis high Water by the Shore before the Hood fets to the fouthward. At the Seevenstones, and berween Scilly and the Lands-end, the firt of the Flood fets N.W. and ends in the N.E. nine Hours; and the Stream begins to tet to the fouthward at high Water, which is E.N.E. a-lhore.

It is high Water at the Gulf at Full and Change E.N.E. and the Tide fets to the caltward rill halt Ebb a-hore at Mounts. Bav; the N. Stream begins in the N.W. and cads in the N.E. nine Hours, wll is is high Water a-fhore.

## the Iflands of Scilly, and in and out at the feveral Se Iflands, and to aroid the Rocks lyiigg about them.

he Lands-ecnd iey are many the Number or 7 Ls. off. rocky, but flands a high mity-boule at befeen 6 or 1, there was $\gamma$; but funce it but by I . c great Care s Road; and ; St. M(ar)'s iugh: Being t the S. fide 'and by the '. part of the ch by St. $A T_{d-}$ etween $P_{\text {en }}$. es called the ater; thereor the Mi, giving thitu Rock clole ail within a pack to the mew Ledse. SSW. from
the Stiver, about half a Mile from the Seezern and the Gingh; when you have the Light-houle S.W. by S. then yon are abreft of ir. There are two Icading Marks to avont the Spani/h Ledge, and Bartholomew Ledge: kecp the ligh h hand of Sampjon on the Steverg, and that will carry you clar of the , pamith Ledge; and bers paft it, then kecp Ciafte berer, wheh is a high round Rock on the low Lami of Samplyon, and that will carry you clear of Bartbolonew Lerdge' but if you ate not hure of knowing thete Marks, I advife you to hold to your iomer Direchons, of kecping a quarter of a Mile from the Hugis; at if you keep fight of the $V^{\prime}$ anes ot the II'mdmalls, but not the Mills, that is, heep fight of halt the liales above the Lands, and that will carry you betwecn Belltholomew Ledge and the Steverv. It yon will fire a Giun, and make a Whaff, you will have a Pilot come off. Beng about the Stevern Rock., ftecr into the Road, and bring the X'ut RockW.N.W. or N.W. by W about half a Mile from the Rock, or a quarter of a Male; or bring the Catte $S S \mathrm{E}$. and anchor in 5 Iad at low Water, or 7 or 8 at high Water. Here yon may nde well for all Winds but S.W. Winds, which bring in a great Sca. It filows here at Full and Change E N.E.

There is a finall Pier at the IIng' Town, where fimall Vedfels lie aground at low Water; it is a good place to cleath, w.alh, tal:ow, or ftop Leaks, ゼc.

Crow-found lies at the Northend of St, May's I/fund, and is a barr'd Chanacl, where at low Thde these is int above four Foot Water: Therefore to diil mhere, you mult take the Tide ; tailing clote by the North end of St, Unin's; ofl of which Place lics a tandy Pomr, and that makes the Bar. Beng over the Bar, there hes a Rock a quater of a Mule fom the Shore,

## Directions for Sailing to and from the

Shore, called the Croü' it is above Water at half Tide. Between if and the Shore is ro more than 6 or 7 Foot at low Water. To fail between this Rock and the Shore, you muft keep within half a yuarter of a Mile of the Shore, or a Cable's length ; but $\mathbf{I}$ advile no Man to go into this Place without a Pilot, except well acquainted. If you fire a Gun, and make a Whaff, you will have a Pilot come off:

Broul. -otnd is dangerous for thofe that are not acguainted: there are two Chamels that lead you in, the S.W. Chamel andthe N.W. Channel. To fail in at the S.W. Channel, which is the beft of the ewo, you mult fail between the Bithop and the Crim, which are the two Weftermoft Rocks of Scilly, and are a good height above the Water : Then ftecr in N.E. by E. kecping the Iflands of Great Gannely and Great Gannick 'pon and thut of St. Mary's Ifland: and with this Mark you ruai in amongt many Rocks, very terrible to behold, and the Marks difficule to be known; therctore 1 advile none to fail in here withour a Pilot from the Ifland.
Swaths-fonted is likewife dangerous, and very narrow. This Sound lics on the Weft-fide of the Illand of Agzilis, on which flands the Light-houte. The Mark to aial in, is to bring Cafthe Bryer, which is a high round Rock above Water va the great Simeth, as you may fee in the Charts: and this Mark will carry you in between St. Alsus, Melledsth, and a fimall Rock called Wentpouso; and being between the Mand St. $A_{\text {the }}$ is, and the Thand Alunet, Itece firft betwecn Annet and the great Smith) Rock, and then being about the Rocks, lleer in for St. Mary's Rond as betore

Newe (irimsbay is a Rond, or rather a fimall Cove between the Ifland of Trefio and the Ifland ot Bryer: There is no dangor in goning into this Place, it is narrow indecd, and only fit for fmall Ships; you anchor betore the Cafte in 5, 6, or 7 Fa . at low Water. It is dry betwecn Trefico and Bryer.
()d Cirmonsory is a Place where fimall Voffels may ride: there anc two Chancle in and our, and very narrow, and not to be made ule of excepr you have a Pitot.

It is hegh Water at all the Illands of Scilly at Full and Change, Inalf and houn patt Four, that is E.N.E: The Spring Tides rife and lall $=1$ and $: 2$ Foot, and the Neap Tides is and 16 Foor.

The Chmel Tide or South Stream fets out of St. Mary's Somed from halif Flood to half Ebb: The Weft Stream concs atio is Mars's Soumb drom half Ebb to half Flood, ana runs out to Broidl found.

N'ter, That abour Scilly, and for 6 or 7 Ls to the Weftward of it, andfrom the Ithands to the Lands-cnd of England, the N. Strcam runs, hours to the Northward, and begias to fet to the Northward the laft quarter Ebb, begiuning to fer to the NW. and fo alterng till it ends in the N.E at which time it will be high Water afhore at Scilly; and then the S. Tide comes and runs 3 hours to the Southward.

You may tee the Illands of Scelly from the S. in 60 Fa. Water, yethon bundy Ground; at which time you will be 6 or 7 1 coif: and them the $\mathbf{N}$ in 60 Fa about 6 or $7 \mathbf{l s}$. off. oufy
fiail, alters the Oblervation fo tion, they fail tion ; clpecial This has been Giorge's Chan to the Northw but the Varia find Indraft is hours E. by S . This Practice who are unacq Variation ; as a Parallel not bring them fai St. dibues Iflat Scilly when th Weather, and fife to trult a Expectation O probable, ma

Nor is this the Chamel not long finc wreck upon tl ly departed fr the only Caut it concurr'd ul Survey of the donc for our ing Pilot, ant the Tides in truc Courfe fir Gasket Rocks times, when Weftcrly, was Courfe, and $w$ very proper fo whotocver fted nel, tho never fall in with th lows thercfor Courfe mult b S.W. which $C$ bead, will carr bout midway which are ab Thus far Capt

Note, That Eugland, the crly, and yca ith 6 ycars. 1

3c- Lail, alters their Lat. above 10 Min. fo thast if they mits an Oblervation for 2 or 3 days, and do not allow for this Variation, they fail not to fall to the Northward of therr Expecttion; efpecially if they reckon Scilly to lie in or above so deg. This has been for fome time attributed to the lndraft of $S_{t}$. Giorge's Chamel, the Tide of Flood being fuppoted to fer more to the Northward than is compenlated by the Ebb letring out : but the Variation being allow'd, it hath been found that the faid Indraft is not fo tenfibly felt; and the Ships aleering nine hours E. by S. for 3 hours E. do exactly kecp their Puralled. This Practice is theretore recommended to all Mafters of Ships, who are unaequainted with the Allowances to be made for the Variation; as alfo that they come in out of the Ocean, on a Parallel not more Northerly than +9 Deg. to Mm. which will bring them fair by the Lizard: for tho the Light-houle on St. A'shes I/land be a lafficient Sccurity againft the Dangers of Scilly when the Air is clar, yet in Seas fibject to thick dirty Weather, and wherein the Pogg Banks are fo frequent, it is not fafe to truft a Ship in the Night near its Laticude, upon the Expectation of lecing the Light : which Expectation, 'tis very probable, may have occaloned the lefis ot many Ships.

Nor is this the only Danger to which Ships are expofed in the Channel on account of this Change in the Variation: for not long face we hase had more than one Intance of Shipwreck upon the licnob Coalt and the Gaski:'s, of Ships newly departed from the 'Powns: and tho perhaps this were not the only Caute of chote Loffes, yet it cannor be doubted but it concurr'd in this Didafter very nuch; for by the late corinus Survey of the Coaft of riance, compard with what has been donc for our own by Capt. Collms in his Griat Britain's Confoing Pilot, and others, and by my felf, in a late Map defcribing the Tides in the Channel of Englund, it will appear that the rrue Courle from the Land of Beachy, or Dense Nefs, to the Gasket Rockes, is but W.S.W. half Southerly; which in former times, when the Variation was as much Eafterly, as it is now Wefterly, was about S.W. by W. by Compals, and rhen a W.S.W Courte, and which was thence called the Channel Coarfe, was very proper for all Shups bound into the Occan; but at prefons. whotoever fteers by Compafs a W.S W. Courfe, in the Channel, tho never fo near to the Shore of Beachy, will not fanl to fall in with the Gaskeis, or rather to the Eaftward. In foll. lows thetefore, that as the Compals now varies, aW. by s. Courfe mult be accounted the Chamel Courfe, mftad of W. S.W. which Courfe, with a realonable Offing from B:abybead, will carry a Ship fair without the Ifle of Wight, and about midway between Portland Bill and the Giasket Rocke, which are abour 15 Ls. afunder, and nearly in a Meridim. Thus far Capr. Halley.

Notc, That at Londoin, and in and about the Channcl of England, the Variation has for thete so years hat been Weitcrly, and ycarly increafes that way at the rate of about a Deg.
:ume ule of except you have a Piot.
It isheh Water at all the Illands of Scilly at Full and Change, half an buat part Four, that is E.N.E: The Spring Tides rife and fall 21 and $:$ Foot, and the Neap Tides 15 and 16 Foot.

The Chanel Tide or Sourh Stream fets out of St. Mary's Stumb from halt Hood ro half Fbb: The Weft Stream conines mon it Mars's Som, from halt Ebb to half Flood, and nums wut to broid-fiund.

Note, That abour Scilly, and for 6 or 7 Ls to the Weftward of it, and from the Illands to the lands-cnd of Eingland, the N. Stream rums g hours to the Northward, and begins to det to the Northward the laft quarter Ebb, beginning to fer to the NW. and to alterng till it cods in the N.E. at which time it will be high Water athore at Scills; and then the S. Tide comes and runs; hours to the Sonthward.
lion may tee the llands of Selly from the S. in 60 Fa. Water, yellow landy Ground ; at which time you will be 6 or 7 l.s. off: and from the $N$ in on Fa, about 6 or 7 l.s. off. outy fandy (iround : 20 or $: 2 \mathrm{I} . \mathrm{s}$. W. by N. and N.N.W. from acali, is a Bank on which is but 50 to 5 : Fa. Water; and beween Scell and this Bank is 60 Ia .

There hasbeen a very exact Account given by Cape. Edmund Hilliv of the Change in the Variation of the Compals for fome years patt motheleares; which caules many good Saitors to multake in then Accomes of Diftances, and elpectally in the L:ititules of the Lazad , and of the Illands of Scilly. We think we camot omit sume fome pat of that Account, as it is pubhhad trom his own Obterations, that the carctul Navigators my be fifficionly warn'd to kecp an accurate Account of thote Chames for their own Satety, in their palfing up and down the Chanacl.

For foucral y cars lant paft. fiys the Cipptail, it has been ob. ferv'd that many Ships bound up the Channel, have unexpectedly fallen on the Illands and Rocks of ince!', or to the Northward thereot; and at they have eleaped Shipureck, have been foreed
 many others lase becn lof in flames too late to avode it. The teaton of allths, is without dypute from the Change in the V'alaton of the Compals, and trom the Latitude of the Lisud. and of Scilt, beng hid down in the Charts too far $\therefore$ Cotherly, by near ; Las for by undoubed Oblervations the Ciand lies man 55 in the madle of licilly due W. theretrom; and the souti part thereot nearelt $1 y^{\circ} 50 \mathrm{~m}$. Whereas in mufl Chartsand books of Navigaton, both of them have been lalfely land down, to the Northward of ; 2 D. and in fome full
D. 10 II Nor wis this without agood Effect, fo long as the Varation comumed much Eafterly, as it was when thefe Charts were made; but now fance it is become Wefterly, as it has beenerer fince the Year 1657, and is at this prefent Year 1-16, no kits than: Deg. All Ships flanding in and out of the Occanlalt, by the Compals only, and without having a good Oblervathot, go more that thee quarters of a Point to the Northwas ot their truc Courle: Which erery 60 Miles they
times, wha

Weltcrly, " Courle, an very prope wholoever nel, tho no fall in wite lows there Courfe mul S.W. whic bead, will bout midn which are Thus far C

Note, T Eugland, crly, and in 6 ycars. much may cover.

## of the $S_{c t t}$

 as also ings.At Helfo at the Lind Sca: In Sc board of the Moon : In from Scilly S.W. At Bicruftable, brad an E.a S at HolyIt lthite ha

You mult ter; and tho Lands-cind is a Bank $=$ which is bu Scilly there

The Star in ${ }_{4}$ Fa. an the Hills the it being hight
The fanc Fowe", and Dartmontb

The Dea Poillt: you Ground s nific oot. lily's omes 1 runs nd bc-
dmund $r$ tome 0 milhe L:1think s pubgators int of $p$ and

Tmes, when the Variation was as much Ealterly, as it is now Wefterly, was about S.W. by W. by Compafs, and then a W.S.V Courte, and which was thence called the Chamet Comrfi, was very proper for all Ships bound into the Occan; but at pretent, wholocver fteers by Compais a W.S.W. Courte, in the Channel, tho never to near to the Shore of Beachy, will not ful to fall in with the Gaskets, or rather to the Eaftward. It fol. lows therefore, that as the Compais nov varies, a W. by S . Courfe mult be accomited the Chamel Courfe, inflead of W. S.W. which Courfe, with a realonable Offing, from Bcachybead, will carry a Ship fair without the I/le of $W$ ight, and about midway between Portland Bill and the Gissiet Rocke, which are about 15 Ls afunder, and nearly in a Meridian. Thus far Capt. Halley.

Note, That at Londoin, and in and about the Channel of Eugland, the Variation has tor thete so years latt been Weltcrly, and yearly increales that way at the rate of about a Deg. in 6 yars. How long it will continue to do to, and how much may be its greateft Deviations, Time only cas difcover.

Of the Scttings of the Tides, and their Flawes in the co Taits; as alfo in what Depths to look out for Land in the Sound. ings.

At Helford and the Lizard E. by N. in Monnts-Bay, and at the Linds-cud of Enghaid, a W.S.W. Moon makes full Sca: In Scilly an E.N.E. Moon makes full Sea: To the Sc.ıboard of the Illands of Scilly, and in the Channel a S.W. by W Moon: In the entering of the Channel a S.W. by W. Moon: from Scilly to the Lizard, the Flood fets N.E. and the EbU S.W. At St. Ives an E. by N. Moon ; and at Pad $\mathrm{P}_{1}=0$, Burnflable, Swinnzcy and Mifford; allo at Lands and Miri. biad an E. and W. Moon make High.water; at Bifion an E. by S at Holy-bead and Chefler-bar S.S.E. as Liverpool S. by L:. at If inteburem and the l/le of Man S.E. by S.

Youmult fee the Inand of S:illy on the S. fide in $\boldsymbol{r}_{2}$ Fa. W. rer; and the Ground there is ftony, with fome red Shells. The Landseend of Eugland may allo be feen in $2_{2}$ Fa.Water. There is a Bank 21 or 22 Ls. W. by N. or W.N.W. from sali, on which is but about so Fa. Water; but between this Bank amd Scilly there is 60 Fa. Water.

The Start, and the Hills at 7)arimouth, may be look'd fin:
 the Hills there in so Fa. they thew thentelves like two Hlle, it being high double Land.

The tane double Land you may fee alio when you are off of Fowe", and all the way Weft till you come regit thant of Datimouth.

The Dead-man may be feen in af Fe, thwart of the fort Point: you will have; Fd 3 Le, from the Steree, dimly Ground.

# Sailing Diretions for the Briftol Chainel, and rouide b. Coaff of Scotland. 

 HEN you come out of the Oen, and, having a good Oblervation, are fatisf'd that you are woten withu the King's Channel, for which the Dercetions are as above, you may then flma away No N.E. to make the Land; looking well out howerer tor the Lightbonfe of Scill, Iett you thould be millaken.

Bur if you are houad tor the Cimpit C Comoneh, take care in time, and keep to the Northward when you are in the L.at. of 4) : , or fooncr. As foon as you have any Somdugs, then tail E by N. or E.NE. whll youme Scth light, S.E. mulcts you are to the northwad hetore, "hen perhaps you will find your felf in the Latitude of cape Cliar, diftance about $=5$ I.s. Then flund awa: S.F.by E, till you find yourdelf in the Height of Scill, and then EXE when you will make Cape Cirolwall, or fome other Land on the N. Coaft of that County

Tho you fhould endeavour to make the inles of Selly, you are in wo danger; for you may fee the llands to the north"and oor 7 Ls. in the Day, and the Lishe of Scilly almofl as fur m the Night; Bur if not. come no ineater than o $_{2} \mathrm{Fa}$. and you are in no danger. It is an excellent Light, and is well ferve.
> $\therefore B$. If any Shap bound up the King's Chamel mifes the Soundings, and happens to be driven into the Braptol Gannel, the beft way is, as foon as they difoover where they are, to ftand over for Melford Harion, becaute there yot are fure of a late Road, and may come cut with any Wind to make for the right Channcl; whereas if you rum up to L.tmi's, or any where on the Einglefh Coatt in the Prapol thamet, you will be fo far in, that you may have great difficulty to ger about.

When you are ented into the Brifol Cbamnel, and have made the I and, the firf Blace on the S. Shore is $S t$. Izes, a immll The-Haven; but there is a good Road in the Bay, where you may anchor in 10 to 15 Fa . From Cape Cornädllto thus Bay the Courte is N.E. by E. and E.N.E. diftance 5 Ls. the Bay of St. I ier is about a Miles broad. At the E. Point hes an thand caild Ciodrezy, where is a great Iedge of Rocks fircechns, out = Miles into the Sea N.W. fome of them are feen at half Tide If you are bound up the Channel, kecp a goond Offing, for thofe Rocks are very dangerous; but if you are to go into the liay, kecp to the W. Point, and you go in clear A notherly Wind makes a great Sca in the bay.

NE, from St. Iees is Palfow, diftant ${ }^{3}$ L.s. Onc League fort of the Opening is Tregarnon 'Point. All the Coaft hither is tull of Rocks and Cliffs, wish fome fandy Bays, but no Port
wand, will yo 11 to tor ; or a Hill, on 1 Minand ; or br Point of the that fide of th l.cad soing. nut Icts than 7 cannot comet Point, which where you al Water, that $y$ take a Pilot to tol. Hung R the Shore'fide. go up to the C to go above muit take a Pil

Note, The
There are Iinglell fides and that liuch, take Pilots. I the Seren y by reafon of you itand ore

There are Lnndy and $\mathrm{H} u$ Rirdgewider: and that no $S$ particular Dirs riding in the wile off of Fiond, and

There are larly at the Sicall: 'T wiat", $B$ miko Road the Tn rums like a Si

If you anc Clefflozo in Wales, from Hation, you Coalt of ${ }^{W}$ al


## a the Weferin Coafts of England.

## l, and rouid by St. Gcorge's Channel to the Wefl of Scotland.

ward, till you hring, the fand f\%at Holme S.W. and kecp 11 So tot ${ }^{3}$ or 4 Miles, till you bring a Mall that Itunds on a Hill, on to the W. end of a land that thews like an Mhand; or bring the Mill S.E. by S. then you are paft the Point of the Ethgh cirounds. Then feer away E.N.E. on thar fide of the laugli/h Grounds which are flat, and keep the l.calgoing. The Tides rife here prodigious high, at a Spring, nut lets than 7 and 8 Fa. fo if you bring a Tide with you, you cannot come to any danger. Then fiecr away to the woflet 'Point, which is ftcep too. A little above that is King's Road, where you anchor ; but be fure when you anchor at high Water, that you confider how much the Tides fall. Here you take a Pilot to carry youl into Ihung Road, and to up to Rriiftol. Mune Road is a Place where the great Ships lie a-float by the Shore-fide, and there carecn, having no Dock; Iefer Ships go up to the City of Rraptol. Thofe Ships that have occafion to go above King Road up the Secern, or up to Chepfiow, mutt take a Pilot.

## Note, The Tides are very ftrong in all the Severn.

There are feveral litele Ports and Places on the Helch and rimg lefl fides os the Secern ; but beimg only for finall Veffels, and thar fich as have occafion to make ufe of them ahways take Pilots. I need not deferibe them. In going up and down the Seren" you muft be very carcful to kece the I.ead going, by reafon of the Violence of the Tides, and cipectally when you ftand over to the Welch Sands.

There are feveral Ports on the Engliff Coan alfo betwecn Lunty and Hung Road; fuch as Baruffable, Llfarcomb, Minebicad, Pridgesater. Ace. But as there are Pilots ready for them all, and that no Ship goes in withour them, there is no need for particular Dircctions ; 'tis fufficient to fay there is very good riding in the Bay without the Bar off of Barnflaple, as likewite off of Iffircomb, where there is 5 to 9 fa, at hale Flond, and good Ground.

There are prodigious Tides in all this Chamel, but particularly at the Holines, as is fald above, and all the way up the Seven: 'Tis the like in proportion in the Ports of Piridgewativ, Brillol, and Cbepfow: Betwecn the Holmes and Ming Roud the Tudes rites above to Foot right up and down, and runs like a Síuce.

If you are bound higher up, cither into the Severn, or for Clepploze, in the Rivet lyc, or to any of the Ports of South W'alts, from the Mouth of W'ye to Swinlizy; or to Melford Hawen, you mult take a Pilot at Hung Read, for all the Coalt of W'alis is very dificicult, tull of Rocks and Shoals;
际

Ritol Clannel, you will be fo far in, that you may have great difficulty to get about.

When you are ented into the Bripol Cbantel, and have made the $l$ and, the firf I'lace on the S. Shore is St. Ieves, a fmall Tide-Hawen; but there is a good Road in the Bay, where you miy anchor in 10 to 15 Fa . From Cape Corncuall to thas Bay the Comfle is N.E. by E. and E.N.E. diftance s L.S. the Bay of St. Les is about of Miles broad. At the E. Point lies an lland calld Gicdrezy, where is a great I.edge of Rocks flecthing out 2 Niles into the Sea N.W. fome of them are feen at halt Tide. If you are bound up the Chanucl, keep a good Offing, for thofe Rocks are very dangerous; but if youl are to go into the Bay, $\mathrm{kec} p$ to the W. Point, and you go m clear. A nomtherly Wind makesagreat Sea in the Bay.
N.E. from St. Ives is Palfooü, diftant ; Ls. One League flore of the Opening is Tregarnon Point. All the Coaft hither is tu'l of Rocks and Cliffs, with fome fandy Bays, but no Port or Habbour, therefore'tis beft to keep off ; yet the Shore is bold, and there's no danger but what thews it felf. If you "ould go into "Padfou", you mult obferve four White Rocks off Tresel noil Pont, whech are calld the Cow and Citlexs. The Haven of l'adfou' is a Bar, and the Entrance icry narrow; therefore take a Pilot at the caltermoft I'oint callid Porainars.

## 

Two Miles from $\%$ 'afto ${ }^{2}$ Harel is another Haven calld
 a Veffel of $=00$ Tun may, upon ftrels of Weather, go in at high Water, and lic on Shore upon the Sand, out of the Rage ot the Sca, which is very volent in all this Channel. It is but a Fithing Town it tclf, but feveral good Ships belong to it which ufe the Briftol Trade.

Marlland $\bar{\prime}$ oun is the next goodRoad to Port I/aac: The Courle is N E.by N. 11 Ls directly oppofite to the lle of Lundy, which lies due N. diftance $3^{\text {to }}$ Ls. Lu:dy lics in Iength N. by W, and S. by E. the Cingliff, fide of the mland is boldand fate; but on the $W^{\prime}$, leb fide 'tis foul; yet there is a very good Road for wefterly Winds, with to to $1:$ Fa. Water. It lies in the tair wiay up the Chandel you may go bate on
 for the $/ 7$ 'd. Shore is foul and rocky.

If you are boma to il: i/tel from Lathdy, fteer along the Susleth Coatt, leaving the Ports of Barnftaple and Bideford an the Starboard fide, tul you come up as high as Minethend or Y'orifock: and then ftecr asway N.E. till you come in fight of two lenall Imands call'd the Iolme's. The fouthmoft next the Shore is call'd the Step Holint, and is high ; and the other the lita /holme, and is low. You may go fate and in decp Wher between them. Keep neareft the Flat Holme, which is phe ftepelt fide; youmay tan clofe to it without any danger.

L. $11 n d y$ anc Biridgecule and that particular riding in wile off Flood, a

There Larly at Scicon: wint Roud the rums like

If you Clicplluci, W'ale's, fi llaven, y Coult ot nor lias it to as that ton by 1 which are

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About Milford 1 Illands to and (irch) may kno Mine's y each fide, I fland, ju within cal

Milfor: there bein that you as you w
nd have Ives, a where // to this the Bay lics an Rocks 1 cm are kecp a if youl ug in in y.

League It hither no Port Shore is If you r White Cou and Entrance I! P'oint
n call'd s. where o in at he Rage l. It is ong to it nc: The lile of lics in Ifland is rere is a 1. Watcr lafe on $\operatorname{lhan}_{3}$ Ls.
long the biallford rche ad or fight of next the he other in decp which is danger. north.
L.mndy and $H$ uns Road; fuch as Barngtable, Ilfariomb, dlunebead. Pividewater. Ne. But as there ate Pilots ready for them all, and that no Ship goes in without them, there is no need for partucular Dircettons ; 'tis fufficicut to fay there is very good noding in the Bay without the Bar off of Barnfla\% $/ \mathrm{c}$, as likewile off of lifarcomb, where there is $s$ to 9 fia at half Flood, and :yood Ground

There are prodigious Tides in all this Channel, but particularly at the Holmes, as is laid above, and all the way up the Scean: 'Tis the like in proportion in the Ports of Birdgewata, Brallol, and c.bepplow: Betwen the Holmes and Miang Row the Tudes rifes above qo Foot right up and down, and rume like a Stuce.

If you ane bound higher up, cither into the Severn, or for Cheplozi, in the River llye; or to any of the Ports of Soutb W'ills, from the Mouth of Wye to s:uathzy; or to Milford Ilavin, you mult take a Pitot ar H hung Koad; for all the Coast of Widls is very difficult, full of Rocks and Shoals; nor has it beconever fo perfectly furvey'das it oughe to be, or to as that it may be depended upon; the Sands alfo thift of ten by the fiury and Uncertainty of the Tides, the like of which are hardly to be found in any part of the World.

The Ports on this Welch, Coalt, are only for fmall Veffels, Coalters and Colliers, fo that they are all Pilots.
> N. B. All great Ships going up or down the Brifol Chamnel, kecp over to the Euglifh Coalt, the Welds Coalt beng fo very foul and dangerons.

The fmall Porss beiween the Month, of 14 ye, and Milford Have: are, (1.) Cardiff: The Courte from the Flat Holmes or Hung Ro. i d is N.N.W. there is a good Road before the Place. "(2) N(ath, a Port chictly for Collicrs, diftant from Cardiff' a L.s. and fomethir:" more; between which and Cardiff is a large Bay calldafter the Name of the Port, Cardiff Bay. (3.) Saianzey, bearng from N'ath W. by S. + Miles. (4) Cacrmantoin in another Jecp Bay ; the Naes above Cardiff; and the $\|$ orm-head S. of swanzy, make Cardiff Ray; and the Wormbroded E and the Hugh, Lands near the Rock Crou' calld St Gaiucn's l'oimt, make the orher large Bay, whech is calld Tonbs.

About is. NW. by N. from hence, is the Entrance meo Milford Haten, which is very ealy to be known, hang three Inands to the N.W. all in fight, viz. Sconckbam, Scaumore. and Girillothes ; allo the Ifle of Lundy S E. or S E. by E. You may know the going in by an old Light-ionfi Tizior on st. Animes $1 P$ omt ; allo two old Black-boufis or lorts, one on each fide, ou the Cliffs; likewife a finall Hand called Stect Ifland, jult at the Entrance on the E. fit", ard another juit within call'd Rat Ifland like the Mew-glone at Thymonth

Malford is certainly the beft Harbour in the three Kingdoms, there being no manner of danger in taling on or out of it ; to that you neced no Pilots, and may turn mand out with laftery as you will, and when you will, with almolt any conrary Wimds,


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Photographic Sciences
 Corporation

## Directions for Sailing on the Wefte

Winds, taking but the Tide; and this as woll by Night as by
Tractl Day: When you are cnierd into the Harbour, you may anchor where yot pleate, according as your Ship is in bignets; and if a Ship in diftrels comes mothout any Cable or Anchor, the may ron a-hore on foft Ooze, and there lic with fafety till fhe is fupplied.

The Spring Tides rife 36 Foor, and the Neap above 26 ; fo that you may lay Ships a-fhore at any time.

But that which makes this Harbour more exce!lent and uleful than any other in thele Parts of the World, is, that in an Hour's time you are in and out of the Harbour into the Sca, and in the tair way between the Lands-tud and Ireland; allo it lies in the Mouth of the Severn: You are in 8 or io Hours, if you pleafe, over on the Coatt of Iriland, or about the Lands-cind in the Englith Channel: Likewife you may get to the weftward out of this Place much fooner, than when you came from $P$ l/wnouth, loy, or Falmouth.

The Illands and Rocks to the weftward of the Entrance to Milford Haren, mention'd above, are very needfin to be known, becautic from Milford Haven to St. Favids is a much frequented Place, by all the Ships which we the Trade between this part of Britain and Ircland.

Scookbam is the firft; it lics W.N.W. from St. Ann's Point. going into Milford, diftance a Lcague and half. And Sectitmore is a large Rock rather than an Ifland, lying above Water, a League farther N.N.W. from Scookisam, and W. from St. Bride's head; it is bigger than the Illand Grefliolme: there is hkewile a great high Rock to the wedward of both the other 2 Ls. rather lefs. There are good Chamels between them all, and they are ftecp too, very bold, having from to to 20 Fa . in the tair Way.

Between Scatmore and the Shore is a little Mand called the didelle; about which, and along the Shore of St. Biedisbeced, 'tis all dangcrous, full of lunk Rocks, and very dimicult. There is a fmall Rock callid the Barel, which bears W. and W. by N. from (iretholme about a League; and another wheh hes 2 Ls duc W. from Grefinoline, call'd the Mattis: Both of them are flecp too.

Ancther Rock lics off at Sca 2 to ; Ls. W. of Circhomber 'tis fonl and rocky a Mile or more from it, eljecially on the W.N.W. and N.W. cnd.
$N$. R. The Tides run violently frong among all thefe lllands and Rocks.

Due N or N. by W. northerly from Scaumore, is an Mland call'd Rainfol, or Kam's /iy', diftance $=1.5$ : Between thom is a deep Bay, by fome calld the Broal Ray, by others St. Fruths Bay; and on the $N$ of the Bay lies St. 'Marids, a hitele City, fimons for being anticntly the great South Paflage or tery to hi cland, tho now much out of ufe.

There is very good anchoring in any part of this Bay, in 7 to 10 Fa . Whe wefterly Winds indecd make a great Sca in the

7 to 10 itrcls of to Irelan ter to ${ }^{\circ} 7$ sfore it been the (7) ublin and fafe the $S$.

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N by the two the Chat Main, a Harbour at low almoft : take a

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The there the N . them, Stack. fear, il NE. Carren tle Mil bove Shoal, lics bet
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n's Point. And Schilove Water, from St. $\because$ there is the other a them all, ) 20 Fa . in

I calld the St. Bridesvery dinih beers W. ad anothor lic Jiatts:

Treflolme: ally on the
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is an Illand enn them is others St. \% ${ }^{6}$ vid., a wh Paflage
s Bay, in 7 Sca in the

Traeth Haven. On the N. fide of this Bay is good ridiee, :i $7^{\text {to }} 10 \mathrm{Fa}$. Water : and 'tis often made ule of by Ships m Itrets of Weather, bound cither to or from Irciand, elpectally to Ircland. If a N.W. blows very hard, Ships bound from Che $\mathrm{g}^{-}$ ter to Dublin which are often diven back, are glad to ren away sfore it for Bargey and this Bay; and in a S.W. Wind it has been the fime with the Coal Ships bound from $S_{\text {wanace }}$ for Duthlin: Alto under the Iflands of Stidwall is good anchoring, and fafe from N.W. and Weiterly Winds, but they are opento the $S$.

Weft from Stidwall is Barfoy Iflard, which makes the N. Point of Cardigan liay; and within the hand is good anchoring in a little Bay call'd Abcrderon; but great Ships in cale of hard Weather care not to rum in, becaute the Entrance is difificult.

N by E. from Barfey is Holy-bad, diftant is I.s. Between the two Points is Cabuarian Bay, being at the S. Entrance of the Channel which runs between the flie of Angleley and the Main, and makes Anglefoy be an Ihand. There is a tolerable Harbour ar Carmavin; it has a Bar, where is but 7 to 8 Foot at low Water ; but the Tide rites to high, that at half Flood almoft any Silips may go in or out; however 'tis very fit to take a Pilor.

Likewife if any onc would pafs thro' that Channel N. to Beammoris, and out at 'lrifflboline, or from Ricamanois ous. by Carmaram Bar, which I have known good Ships do, they muft take Pilots : for tho there is Water cnough for any Shp. at high Water, (for the ordinary Springs flow here +Fa and better) yet the Tides run fo ftrong, and the Shore is to full of Rocks and Shoals, that it is excecding delficult; particularly there is a Hat in the Middle of the way, calld the SWilly, which is very dangerous.

Thare is very good anchoring in Cannamat Roy, off of the Bar, in 5 to 10 and 15 Fa . N.W. from Carmat and Bur is Liolyboct, on a finall Ifland W. of Anghery Jfand: The Shore is all fond, and very dangerons, elpecially with the Wind at S.W. But from the Point of Carnaran Dar aleer away N.W. kecping a good Olling, you may go bafe to Flot,lecad: The Town and Harbour of Hols-head is on the othes fide of the fimall Ihand, to the N.E. from the Carren Point.

The hewd in lelt is not the farthett pirt of the Mand; but there are two l'oints, one calld the W. Point, the other the N. Point, with a little Ihand lying off betore cither of them, one calld the Nowly Siach, and the orber the Sumb Stack. You may fail from the fift dae N. to the hat withous far, the shore is botd and fite.

NE. from the N. Point of the Indand, diftance 2 Ls. lees Carren' Point, being the northmoth land of Auglefey. A little Mile from the Shore, NE. from the Poine, les a Rock a-
 Shoal, with but is Fa. on it, call'd the Cold. The fair Way lies betwecn them to :"ricftholme, a fmall mand lying at the Entrance of the Bay of Beationaris, being the other End of the whate which cute off the Ince of Ahe ber from the Main,
and in. by N from (incflolime about a League; and another whech hes 21 s. due W . from Gioghotine, calld the /hatts: bothot them are flecp too.

Another Rock lics off at Sca $=$ : to 3 Ls. W. of Circflombine; 'tis fonl and rocky a Mile or more from it, efjeccially on the W.N.W. and N.W. cnd.

## $N$. R. The Tides run violently ftrong among all thefe lllands and Rocks.

Due N or N. by W . northerly from Scatmore, is an Inmd calld Ray/G, or Ram's Iy , dittance 2 Is : Berween them is a deep hay, by fome calld the Biond Ray, by others St. Breds: $R_{i g}$; and on the N of the Bay lies St. 9 ) avids, a litute City:, famons for being anticntly the great Sounh Paffage or tony to lichasi, tho now much out of ufe.

There is very good anchoring in any part of this Bay, in 7 to to Fa. The wefterly Winds meded make a great Scai in the Mouth of the Bay, but there is Sheleer from them alfo under Ram (a)! int. There is a marrow Chancl betwecn Remfèy and Si Hioudrobed, but 'tis not much us'd except by the Coafters, and thote who are very woll acymanted. The Maf: cits is a great link Rock, which fome Pilots fay lics of of Rambey 5 Ls. N.W. northerly; and others fiy there is no washRock, or ar leaft that they could never find it.

This thand of kianfor is calld the $S W$. part of // a les: But if 'tis objected that it is feprarated from the Land, then st. © Dacids.hed is the S.W. Point; but the Sailors call the Iland the S.W. Point, and to it mult pals; as Cafe Clcar is calld the South-Weftermoft Point of Ireland, whereas it is an Mand 6 or -I s. from the Main. From Rainfiy 'Point to the Southmoft Pome of Irciand, calld Caraurot, a little S. of $/ 1$ cajord, the Courfe is W.N.W. diftance 16 Ls.
 dhance: $L$. Thele are Rocks which have often becal fatal to Ships coming wit of the Sea, from the Count of Tieturd; and as they are at the Extremity of the the of Bollain that was, the Land falls coff jutt from them, and trends anay N.E. on the Wert Coaft of Soutb.HFales: And here begins that we call it Gicomeds Chancl.
You have a bold Shore here to the S. Point of Caidigh $B$ hey, diftance - Ls. This Cordisan Boa is a very large Guph of the Sca, bearing ta far upon the land, fletching $N$ and $S$. from Cirdigati Point to Buaf I I/fund, is Ls. due N. In the Buy are fereral hitele Tide-Havens and Places only fit for timall Veffels, and mont of them are barr'd too, fearce worth naming, for here is neither Trade, or Sea-Port for Trade; fuch as Kings Cbapel, Alicrat thy, Lampuled, Abcriflayth, Abcriduy, Barmonth, Laudunor ; Places hardly heard of by Scamen, yer necdful to be mamedtoo. At the $N$ part, in a deep Bight, you have a Bay within a bay, a long Gulph rumning in N.W. by N. and at the farthef End tis call'd Pitholly Bay. At the Bottom of this bay there is a finall River which comes into the Sca with a full Chamel, and makes a pretty good Haven; 'tis calld

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and mother the Matts: : Giveflomine ; cially on the
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The Mif: lics off of there is no it. Iralis: But then $\left.S_{t}, 9\right)_{a-}$ he Mand the is calld the 11 lland 6 or ic Southmoft avord, the
bis Clerker, a bee: fatal of Heland; mithaile that Is away N.E. gins that we mdig.in finy, ge Gulph of ng and S . : N. In the fit for linall rth naming, le; fuch as , Alucrabiy, Scamen, yct pBight, you iN.W.by N. the Bottom the Sca with ; 'tis calld

Shue is all foul, and vory dugerons, c!pecially with the Wund at S.W. But from the Point of Carmarou Bar theer away N.W. kecping a good Olling, you may go date to forthead: The Townand Harbour of Holy-hecid is on the other fide of the finall Mhad, to the N.E. from the Carren \% oint.

The llead it felf is not the farthelt pirt of the Illand; but there arc two Points, one callid the W. Pomet the othes the N. Point, with a lietce Iflad lying off beture cither ot them, one calld the North Siack, and the orher the Sumtio Stack. You may fail from the firt duc $N$. to the laft withour fear, the Shore is bold and lafe.
NE. from the N. Point of the Inland, difanec 2 Ls. lies Carron'sint, being the northmoft Land of siuglefy. A litthe Milc from the Shore, NE. from the Point, lies a Reck above Water, calld W'st Monfe; and 2 Miles N. trom it a Shoal, with but is Fa. on it, called the Cole. The fair Way lies betwecn them to :'riefllacint, a fimall Inand Lying at the Entrance of the Bay of Reatuna is, being the other End of the Water, which cuts off the Ine of Auglefey from the Main. YourCourle to Prichphime is LS.S. diftance s Ls; one L. ia the way is the other Rock calld Faft Wenfe; If you are hound
 always ready, and it is a very difficult Place.

From this Ifland to Ainuthert, or Ormbead Tooint, the Courfe is E. by N. difance = I.s. E.S.E. which carrics you in-
 carrics you to Myl: Late and the Bar of Cbofter : This is a difficult River, the Entrance wide, but the Channel narrow, the whole Coaft being block'd up with Sands; as particularly a great Sand calld $H$ Hyle, which ftrecches out from the S.W. by W. to E. by S. almoft to the Mouth of the Alerey, and the gon ing into Liverpal. On the S. fide of this W end of the Byle lics Cosfer Bar: You may have Pilots always ar hand on carry you up ; fo the Entrance, and the Riter (which is full of Sands) is none of our Bufinets harc.

On the S. and S.E fide of the E.cnd of IIJle Sand, calls the Eafl-Spit, lics the Channcl calld Hyle Lake, where great Ships ride on Occafion, waiting for al Wind to go into any of thote Waters, cither for Cheffer or Lizeeryool: Here the Mea of War rode, whan they waited to carry King Willing and his Army to Irelana This Sand of Hhe is dry at Low Water, and part of it dry cyen at high Water, on Nea! Tides.
E. by S. of the E. Point of the IVYe Sound (the Chanmet es IJ le Lake lying between) lics a gicit Saml (alld the: :'en, ftretching out N.E. to a Pount; and then fills anay E. to the N.W. Point of the entrance into the $14 \%$.

There is a Chanucl into $L$ iveryod this way along the fide of the Toue, 'tis dry ar low Water; bere as the Tide flows here ${ }_{25}$ Foot on the Springe, and 21 Foor on the Neaps, any Ship may go over at high Water, with a filut; and no Stranger will venture without.

The decpect Chand into Liectipol is E of the Doot, called Formy', which is a large Entrance, and where yon have 3 * E
to 5 Fa, at low Water. But as this Paffage is not buoyd or makkt out, the great Ships bound for Lierpool choofe to the at Hyli Lake, and go over the Flat as above, oftentimes lyhtring their Ships betore they go over.

At: Whace called the \% yle of loud $\%$, due N . from the $H y l e$, dit. 10 Ls ir thows 5 年ar right up and down on the Spring 'Tides; tis the Southermoft Land of Cumberland. All the Coalt of Lanca/hire, which is on the E fide, is void of Ports and full of Sands, execpe the Opening into the Rivers Ribble and Lune, "hich gocs up, the lan to Lancafter, and the firft to Prefton. Oppofite to the Ribble Mouth, lies Prefion Sand, fitretching N . and S. $;$ Ls. in Icngth: there is a good Channel within the Sind, ruming along the fide of it $N$. and $S$. as the Sand lies; Whete there is $z^{\text {to }}+$ Fa. at low Water: But as the Tides rifc here to excectung high as to 5 or 6 Fa. Ships go over every dhang at balf Tide without Fcar; yet I would advife no Stranger toftir without a Pilot any where between Holy-Head and St. Bices.
From Hoy-Hculd to St. Eces the Courfe is N.W. Wefterly. Thofe Pilots who direct us to ftecr from Holy-Head duc North, mult needs be ftrangely miftaken; and whocver follows that Direction in a dark Night or a thick Fog, it may be fatal to them, and ruas them Bump cighore upon the Ille of Man; and if they were not wreck'd there, they would be in great danger of the Kiug I William Saud, off of the N.E. Point of the $1 / \mathrm{lle}$ of Man, which lies S.W. from St. Bees, diftant 5 Ls. and lies it felf S.E. and N.W. or rather S.E. by E. and N.W. by W. in length + Ls. Some Pilots fay 'tis 6 Ls.

From Holy-Head to St. Bees, the diftance is 20 Ls. the Conrte as above, and from Holy-beal to the S. Point of the Ifle of 11 an the diftance is $\mathrm{I}_{3} \mathrm{Ls}$, the Courfe duc N .

N from St. Bees Head is the Port of White. Haven, diftance : Ls. Tis a dry Harbour, and has a fmall Pier, yet 'tis

## Sailing Directions for the chief Har

 N the E. fide of the $1 / f l e$ of Man, about 2 Ls. from the Calf' of Man, is 'Derty Haven, where is good anchoring for any Wind under the Caftle in 3 or 4 Fa. Water; or you may run higher, and anchor between the Perchics, and lie a-ground at low Water. There is alfo good anchoring quite without in the Road in 10 or 12 , or 14 Fa, with good fhelter from Northerly and We:terly Winds.

About 2 I.s. and a half to the Eaftward of Derby Hazer is 'Toustus Bay, whore you may anchor in 10 Fa. Water; or you imay go further up to the Weftward, till you bring Touthes thiad S.S.E. or S. and anchor in 8 or 9 Fa. fecure from Weftesly Winds. The Haven is conly a freth Water River, whure lmall Veffels may go in at threc quarters Flood, kecping clofe to the Rocks; there is 10 or 12 Foot at high Water, but at low Water' 'is dry.

Ra very by to Sca; the bc fmall ter. there chor i Wind

## ling on the Weflern Corffs of England, © Co.

ot buoy'd or ol choofe to oftentimes m the Hyle, n the Spring All the Coalt orts and fuill ile and Lunc, to Prefon. d, itretching cl within the he Sand lics; he Tides rife over every ife no Stran-ly-Head and
$\mathrm{W} . \mathrm{Wc}$ fterly. rd duc North, follows that y bc fatal to of Man ; and great danger nt of the ilfe Ls. and lies W. by W. in

20 Ls. the nt of the Ifle
-Haven, difPier, yet 'ris
well known, and much frequanted by Ships loading Coals hete for Irohad.

There is no River of note here, but a very good Road, and where the Ships take in their Co.ls; it it over blows, they run into the Haven with the Flood, or fland away to St. Bees, where is very good Anchoring and lafe Reding.
N. B. We do not find any of our Pilota give a Defeription of the Coalt on the britilh fide beyond Whitebaven, or that the Coalt beyend it North has beco juitly furveyed; except in fuch Surveys as are very antiticnt, and which by realon of the thitting of the Sands and other Imperfections, in to long time are not entirely to be trafted to. All thote Ships therefore that trade farther $N$ in thele Scas, either for Carlifle, Dumfries, Aire, Glafsow, and any of the Ports in the Firth of Clyde, are uled to take Pilors cither in the Ifle of M1an, or at White Haven, if they come from the Coaft of England or Ireland, that is, from St. Gcorge's Cban. nel; but if they come out of the Occan from the Southward, 'ris ulual to make firft the N. Coaft of Ireland, cither the Fair Foreland, the Skerries, or the Ifland of Enfferflball; at all which Places they may find Pilots to dircet them into Clyde. Likewife if they come from Norway, or the Baltick, to go North about for lreland, they ordinarily put into the South Channel of the Orkneys, called Pent land Firth, that is to fay, at Kirkwall, or at Stromain Orkney, or at Dungs. by-iocad, the N.W. Point of Cait/one/s, where thereare good Ports, and at all which Places they cannot tail of skilful Pilots ro carry them thro' the Firth, as alio by the Weftern Iflands of Scotland, to any particular Port on the Weftern Coaft of Scotland, or to the North of Ireland, and even as far as the Ifle of Mant.

## - the chief Harbours in the Ille of Man.

$t 2$ Ls. from where is good aftle in 3 or and anchor at low Wathout in the m Northerly
rby Haren is a. Water ; or bring 7oulfecure from Watcr River, ood, kceping h Water, bur

Ramfiy Bay lics at the N.E. end of the I/le of $11 a n$; it is a very good Road by reaton of a Sand called Ramfiy Saind, (or by fome Beboma Sand) which lies without, and breaks off the Sca; you may anchor in from 10 to 5 Fa . Water. There is at the bottom of the Bay a limall River called Sclly River, where fmall Veffels may run in at high Water, and lic dry ar low Water. Betwecn the two forchaid Bays 'Douglas and Ramfey, there is a fimall lnler called Laxey $B$ ea, where Ships may anchor in 10,8 or 7 Fa . Water, with ihelecr from N. Wefterly Winds.

On the N.W. fide, about the middle of the Ifland, is $P_{\text {eel }}$ Road, on the W. fide of which is an Illand with a Caftle upon it: If you bring the Inland S.W. about a Mile diftant, you may anchor in 10 Fa . Water; or if yougo further in till' you bring the Ifland W. you have 7 Fa . It is a good Road for Southerly and Eaflaly Winds.


N the E. fide of the l/le of Man, about 2 I.s. from the Calf of Man, is Derby Haven, where is good anchoring for any Wind under the Caftle in 3 or
0.senew +Fa . Water ; or you may run higher, and anchor between the Perches, and lie a ground at low Water. There is alfo good anchoring yuite without in the Road in 10 or 12 , or $1+$ Fa. with good fhelter from Northerly and Wetterly Winds.

About 2 I.s. and a half to the Eaftward of Derby Harce is 'Doughas Bay, where you may anchor in 10 Fa . Water; or you may go further up to the Weftward, till you bring 7 Doualas Mind S.S.E. or S. and anchor in 8 or 9 Fa . fecure from Wefterly Winds. The Haven is only a frelh.Warer River, where fimall Veffels may go in at three quarters Flood. kecping clote to the Rocks; there is 10 or 12 Foot at high Water, but at low Water 'us dry.

Divalions for coming into the Channcl or Sea Englifh Chainel, and for failing on between Downs.


HE Mariner having now left the vaft Occan, and broughe his Ship into the Soundings near the Land, amennt Tides and Currents, his Art muft a little be hidafide, and Pilotase taken in hand; the nearer the Land, the greater the Danger : therefore his Care ought to be the more, being in Tides ways, narrow Channcis, and among Rocks and Sands. The Mariner, however skiltul, cannot take it amils, that we recommend to him to be wall inform'd of the Courfes of the Tides, the Indrafts of Bays and Channels, and cfpecially that he is very fure that his Compaffes are truc, and in good order, and that he kecp his Leadgoing on all Occafions.

Particularly he muft take great care that no Iron be near the Compals: for after long Voyages, and that the Compaffes have been much uled, they will grow dull, and yet the Virtuc of the Magnet may hold good, and be the fame as ever: but that Which cauleth the dulncts, and that the Compafs is not quick in traverfing, is the Pin's Point (on which the Compafs ftands) being wornbhent ; thercfore flarpen it with a Hone or fine WhetAone, with Care and Exactncfs: and this take for a certain Rule, that the light Card Compaffes traverfe beft in fair Weather, and the heavy Card Compafics beft in foul Weather. I mean by the hoary Card Compals, that which is flifned with Ablecriy Glafs, and a Plate of Steel, which is touch'd by the Ionaltonc, inftead of stcel Wire, which is in the light ones: The heary Card Compaffes are in Brals Boxes, which are made to open to take the Card out,
sout 2 I.s. from where is good Caftle in 3 or er, and anchor and at low Wawithout in the from Northerly

Derby Haren is Fa. Water ; or ;ou bring 7ortFa. fecure from Ih Water River, Flood. kecping high Water, but

Ramfiy Bay lies at the N.E. cnd of the I/le of Man; it is a very good Road by realon of a Sand callad Ramfy Sand, (or by fome Rehoma Sand) which lies withour, and breaks off the Sca; youmay anchor in from 10 to 5 Fa . Water. There is at the bottom of the Bay a timall River called Solly River, where fimall Veffels may run in at high Water, and lic dry at low Waicr. Between the two forchaid Bays Woughes and Ramfey, there is a limall lolet called Lavey liay, where Ships may anchor in 10,8 or 7 Fa . Water, with fhelter from N. Wefterly Winds.

On the N.W. fide, about the middle of the Ifland, is Peel Rotid, on the W. fide of which is an Illand with a Caftle upon it: If you bring the Ifland S.W. about a Mile diftant, you may anchor in 10 Fa. Water; or if yougo further in till you bring the Illand W. you have 7 Fa . It is a good Road for Southerly and Eafterly Winds.

## Channel or Sea between England and France, called the ing on between the Coafts of England and France, to the

aft Occan, and near the Land, $t$ muft a little be ind ; the nearer crefore his Care , narrow Chanariner, however nend to him to the Indrafts of ry fure thar his pat he kecp his
ron be near the Compaffes have a the Virtue of cuer: but that is not quick in ppafs ftands) bccor fine Whetke for a certain peft in fair Weapul Weather. I is ftifned with touch'd by the the light ones: which are made

Your next Care is the fetting of the Tides, which fo frequently alter their Courfe, and the want of knowing whichoccafions the lots of many a Ship, elpecially when you fail clofe upon a Wind: then if the Tide take you on the Wearher-bow, you fhall fall much to Lecevard of your Expectation ; as on the contrary, if it takes you on the Lcc-bow, it carrics you to Windward of your Expectation.

Coming out of the Ocean into the Soundings, which you may know by the Watcr being difcolour'd, your beft help is a good Obfervation of the Latitudes; the next Confideration is your Depth of Water, with the Colour and Quality of the Ground. This laft fome are apt to depend too much upon, tho I think it very uncertain; as I have found by experience, when lying becalm'd in the Soundings, we have often heav'd the Lead, and found one Caft to different from another, and fill in the fame Depth of Water, that I would not have any to truft to it: only this is gencrally obferv'd, that the Ground to the S.ward on the French, Coalt is gruffer, that is, the Sand is bigger or more gravelly, there are bigger Shells and more varicty than on the Eustilh fide, with a fort of flarp finmell things calIed Needles. W.S.W. from U/hant 8 or 10 Ls. you will have 74 and ${ }_{75} \mathrm{Fa}$ Watcr ; and 4 and 5 Ls.W. from U/hant 63 and 70 Fa. W.N W. from O/hant, 8 or 10 Ls. you will have 70 and $7_{1} \mathrm{Fa}$ and 4 to 6 Ls off 65 and 66 Fa .
N.W. from Uhacht 8 or 10 LS 70 Fa at 5 Ls. $\sigma_{4}$ and 65 Fa. and at NN.W. from O/hant abour 7.8 or 10 Ls. from 65 to 68 Fa. $\operatorname{and}_{4}$ Ls. N.N.W. 60 Fa. Norh from $\mathcal{U} / h_{\text {mast }} 8$ or

## Directions for Sailing in the Britill C

$101.5 .6+$ and 65 ; and from 3 Ls. to 5 I.s. N. you will have 60 Fa. In thete Depths, Banmes and Dittances, the Ground is White things like Hakes Teeth, and 'tis rougher than on the I:ng!ith, Coalt: but, as I laid before, the Quality of the Gound being to uncertain, is not much to be depended upon.

On the Coalt of lingland the Ground is lomething amore certain Rule. Firft, it is finer in gencral: For 5,6 and 7 1.s. to the Southward of Scilly, you will have from 50 to 60 1.1. Water, fine white Sand, with tome red and black amongft it; fometimes fonc fimall Shells, or pieces of Shells; and at other times white Sand only. Kecp in the Lat of 49 deg. ;o min. or 35 min . or 40 min . till you have from 60 to 55 Fa . Water, more or Iefs, as the Tides may be high: for at Jcally and thereabouts the Tides rife above ${ }_{3} \mathrm{Fa}$ at Full and Change. 1 havefien the Light-houfe of Scilly in Lat. 49 deg. 35 mm. at which time the Light-houfe bore N. by E. about 6 or 7 Ls. off; and at the lame time I had 58 Fa. Water, fine Sand with black Speckles, and pieces of Shells. To the Weftward of Scilly the Ground is finc grey and white Sand, mingled with fimall black Sand and pieces of Shells, and fometimes without the black Sand, and only with pieces of Shells: but if you are to the Northward of Scilly, then your Ground will be white Sand and ouzy Sand. When the llland of Scilly bears S. about 5 or 6 Ls. you will have 53 to 57 Fa . Water : and on that fide you may lee the Light of Scilly in clear Weather 6 or 7 Ls. in the Night. Here it is to be obferv'd, that whereas many Ships have mift the Channcl, and run to the Northward, (into the $W^{\prime}$ eld Channel, or the Serocrn) contrary to their Expecration, the caute of it is by the Stream fetting 9 hours from the N.W. to the N.E. and but $;$ to the S.ward: This Strean begins to fet to the N.W. When it is half Ebb at Scilly, and ends in the N.E. when it is high Water: It begins about 6 or 7 I.s. to the Weftward of Scilly, and 4 or 5 Ls to the Southward; and to between Scilly and the Lizard.

Beng to the Southward of Scilly, about Lat. 49 deg. 30 to 40 min . and having from 60 to 55 Fa. Water, you mav keep away E. in that Lat. according as you have Wind or Wearher, and in the fame depth: but when you have failed about 15 or 20 I.s. from 60 to 55 , or 52 Fa . then if the Weather be clear, you may ftecr Northerly till you make the Land. When the

Lizard be ${ }_{57} \mathrm{Fa}$. Wat Colours, t with this「a. Bcing ter, you n the Stream you within biad and th

When y keep off fr the Ciasket in amongft have deepe than on the

From thi to and 30 go up the

When $y$ Indratt me dhe's and $s$ Ship into called the /"ight, an may fec in

All the Fbb fets is to run agro

## Sailing Directions for the Coaft of Treland, from St. M Land of Ireland, to Enfterfhall near London-D Land North.

[^3]The fan off of tho Mill, you S.W. and

## n the Britilh Channel, \&c.

ave 60 Lizard bears N. hy E. daltance about g Ls you will have 55 to und is on the of the up? a more and 7 to 60 monght ; and 49 deg 55は. Jcilly hange. min. at s. off; h black : Scilly th fimall our the u are to c white S. about hat fide
7 Ls. in s many d, (into Expceirs trom Strea:n 4 4 , .and t 6 or 7 South.
g. 30 to iv keep veather, t 15 or be clear, hen the

57 Fa. Water: then you will have pieces of Shells of Eeveral Colours, thin, lmall, flaty Stoncs, and no Sand. Nectine with this Ground, you may fland in to :he Northward into 50 Fa. Beins palt the Lizard, it you keep withour yo F.a. Water, you need not fear the Eddiftone; you will have fo la in the Stream of the Eddiflone; allo if you keep in 35 las. thenare you within the Eddiffori. There is 35 Fa. between the Rambidad and the Eidatifione.

When you arefure of being paft the Lisard, be carctul to keep off from the livencls Shore, for far ol the Rocks called we Gaskets: when you are near them, the Tide of Flood fets in anomgtt the lllads of Giturafoy and \%orey, Oic. You will have deeper Water very near the Rocks, and grufer Gromed than on the $E$ Entlifh Coatt.

From the Start to Poryland and the Wratht, keep between 4 and $; 0 \mathrm{Fa}$. Watcr, or between 35 and:o, according as you go up the Chamel.

When you come near the Ifl: of li"het, hase a cate of the Indratt mention'd before, that letsftrong both iato the Netdhes and St. Helens. Thoic Indrafts have drawn many a good Ship into Frathayer bay and others, on that dayerous smd called the Oucrs, which lies to the Eathward of the l/ie of W'ght, and where they have been franded and lolt; as you may fee in the Deteription of thole Places.

All the laft half Flood, or the laft yuarter Floed, and all the Fbb fets into St. Helens; which hath allo cauled many Sinips to run aground on the Owirs.
$N . B$. The Rules for failing from the Ile of Wirht to Densey $N e / s$, and ti into the Downs, may be effectually taken by the reverfe from our Directions for Railing from thofe Places to the Ifl, of light; allowing for the cne being E. and the other W. Oblerving alio, that if you thand over on the French Coaft, there is a Bank in the tair way between Dengey Nefs and Butllen Brey, which has but ${ }_{13} \mathrm{Fa}$. on ir, and which in the Nighe may caule you to think you are nearer the Shore than you are.
nd, from St. Margaret's Bay on the S.E. Point of the ear London-Derry, being the fartheft Part of the
$\therefore$. of the rom the as many St. ©Da-

The fame Mill may be a Mark to avoid the Shoal which lics off of the Point : for as long as you do not lole fight of the Mill, you are far enough from the Shore: and when it bears S.W. and S.W. by S. then you are patt it all, and may go away N.W. and N.W. by W. into the Bay, as the Wind and Tide
licuig to the Southward of Sisty, about Lat. 49 deg jo to
q) mum. and having from 60 to 55 la. Water, you miy keep away E. in that Lat. according as you have Wind or Weather, and in the lame depth: but when you have failed about 15 or 20 L . from 00 to 55 , or 52 Ia . then if the Weather be clear, you may fteer Northerly till you make the Land. When the

## Suiling Directions for the Coaft of Ireland, from St. I Laide of Treland, to Enfterfhal! near London-I Land North.



Armanot is the utmoft Point of L.and S.E. of the whole Kingdom of Ireland; 'tis diftant from the Lands-cnd of Einghend about 40 Ls. and juft as many Miles from the Lands-end of Wales called St. Waradr, being $16 \div$ I. E.S.E.
from hence to $S$ 't Margaret's Bay the diftance is but one L . You muft kecp a tmall Offing from the Shore, becaule there are feveral Rocks and foul Ground near the Land; but at a cerram diftunce' 'ris fate. There is a double Land which lies withm the Cluffs, and which at one certain diftance may be feen over
m : be ture to kecp to far off, that thofe double Lands may athays appear. If you come to near under the Cliffs as to lotic fight of them, you will be in danger.
When you are off of the Bay, briag a large Houfe which flams on the imer Lands into one with the Mill, which you will fee on the infide; then you are right with the Bay : There arc fome Rocks in the midway above Water, you may go on Which fide of them you will as the Wind ferves; but there is a tiunk Rock off of the lay about two Mile S.S.E. Your tafeft way in coming from Carmaroot Point is to go without this Rock; to do which, keep the Tronchin, and the leaft Inand of the Sulteres, one in another.
N.E., from St. Margarct's Bay in Gronore Point, diftant about half a $L$ the Land is ftecp and flat on the top, and there is a Shoal rums off from it into the Sca near a Mile E. by S. dry at low Warer. There is a double Land here alfo alongthe Shore, which guides you to avoid the Shoal; for keeping the inner Land about a Mau's lecight in fight above the outcr, you are lafe; or you may (if it be dark) take it from your Dcpth of Water, kecpuig no nearer than 6 Fath. or 5 at the utmoft, and not without 8 or $a$ Fa. Ieft you fall too near the New Ground.

This New Ground is fo ftecp, that clote by it you will have 10 Fa. Water, and upon it not above a Fa. When you would go about the Point moto the Bay, be fure kecp the double Land a Man's height above the outer Land as aforcfaid, and keep your Courle North till the faid high Land comes to the North. ward of the fteep Point of Gircuore, kecping a Mill which is near the faid Point in view, the top of it appearing juft over the P'cint ; and wl en you fee the Caltle come withour the Poinr, then you are tues with the Bay, and keeping your Lead may fall right in

The off of $t$ Mill, y S.W. and N.W. an will allo
Or thr Land co ${ }_{5} \mathrm{Fa}$. by fo on to on N . till then you

When
arc bout may anc

Offo a grcat Hull of Body of allo fom Waterfo the Tus above. caufe 'tis Wexfor of Irelat
If yo obferve the Sou it lics at ncfs. run in Bay, w Spring farcher to go fa the $\mathrm{N}^{\prime} \mathrm{c}$.

In o Ifcıma of Wex the low
eg. jo to ay kecp Veather, it is or be clear, Vhen the
if you llind over on the fremel Coalt, were is a bank in the fair way between Deagey Nef. and Batlen Boy, whach has but ${ }_{13} \mathrm{Fa}_{2}$. on it, and whol in the Night may caufe you to think you are nearer the Shore than you are.

## and, from St. Margaret's Bay on the S.E. Point of the ear London-Derry, being the fartheft Part of the

E. of the from the tas many I St. Daput one $L$. there are at a ccrlics with. feen over ands may as to lole ufe which hich you y : There nay go on at there is rour lafeft thout this It Illand of
tant about there is a S. dry at the Shore, inner Land refafc ; or of Water, $t$, and not ound. 1 will have you would uble Land , and kecp the North11 which is y juft over the Point, Lead may

The fame Mill may be a Mark to avoid the Shoal which lics off of the Point : for as long as you do not lole fight of the Mill, you are far coough from the Shore : and when it bears S.W. and S.W. by S. then you are palt it all, and may go away N.W. and N.W. by W into the Bay, as the Wind and Tade will allow.

Or thus; keep on N. till a long black Houle upon that fame Land comes out to the Weit of Cirenore Point; then keep in ${ }_{5}$ Fa. by the Shore or Shoal, till you come into 6 and 7 , and to on to 8 anto Fa and then it will hoal by degrees; or keep on $N$. till you lee another black Houle come without the Point. then you ate paft all Danger of the Shoal or of the Point.

When you are come into (irevore Bud), take a Pilot if you are bound to // ixford; the Bay of Gremore is all dafe, you may auchor from 6 to 3 Fath. where you pleafe.

Off of St. Margaret's Bay E. by S. diftant about 2 I.s. lics a great Rock called the Tiuskur; it lies in the Sea l:ke the Hull of a Ship with her Kecl up, but much bigger; or like the Body of a dead Whale, only that it is not fo long. There are allo fome lunk Rocks on the North fide of it coming from Waterford about Carnaroot Woint: 'ris belt to go without the Tuskar, but from St. Margaret's they keep all within it, as above. 'I'is very needful to be particular and exact here, becaufe 'tis the great Gangway for all the Ships which go between Wexford and England, or that go about from the s. to the W. of Ircland.

If you are bound from Grenore Bay to W'exford. you muft obfcrve a dry Sand callad Hentman's 'Path, which lies off of the South Point of Wexford Harbour; and upon the North of it lics anorher called the Ne $\mathrm{N}_{\mathrm{w}}$ Ground, much of the fame big. ncis. If your Ship draws Icts than $\&$ Font Water, you may run in berween Henmin's'Patio and the S. Point of Hexforid Bay, which is called the Someder. Where you have ro Fa. at Spring Tides: but if you draw more Water, you mult keep farther off, and go round both thofe Sands; but take heed not to go farther off than 10 to 12 Fa . for tiar of the Banks called the $N^{c} w$ Grounds, which as above is fteep too.

In order to know when you are without thofe Sands called Henman's I'ath) and the Nes (iromb, obterve a Hill to the N . of $W$ c.xford with a round Hummock, which you will fee over the low Lauks above the Straid, where there is a Cafle : Bring
the Hummeck a littie to the N. of the Catlle, or in cate of neculity bitig them together, and then you will go clear ; but take heed you do not open the Hummock at a!l oo the Southwat of the Caftle. If it be thick Weather, that you camot bail by the Marks, kecp your Leadgoing, and kecp in - Fra. Water, and you will go abont the Sands well enough.

The beft and deep.f Chamel to go into li exfet, is between Hemanas Patb and the New (ionand Sands, whete you have + to 5 Fi, all the way. To mathrohere, kep a litele Cande which is on the S Land within the Strand, upon the S. chd of the highland of llafiod, banne frem you S.W'. by 11. When it fand to, and afto betwixt the two Northermoit litule samblhlls upon the Somidy, then you are tho' the Channe butwen the Sumls, and may go right for the Bar of $/ /$ isi id.
 .n. hish Watur.
N. $B$. There is a Maft ftands on the Tail of the $N(\because \ddot{ }$ Grount Sand, being the Forment of a Ship which was foft there, and is bury'd in the Sand, and where the Ground is very flat. Gining towards the Bar therefore, 'tis beflkep at a cond diftance S. lett the Tide horie you on upon the Tail of it.
$N$. $B$. The Chancl between thele two Sands is fhifed, and lics more to the Northward than it uled to do; and the
 that in time new Marks mult be placed for the paling thro'.

Bums orer the Bar, you have 3 to + Fa. amin: then you ant ran over to the Fout of rhe Strant, and then adge to the A to anod tome Shouls which lie within the Sounder to the IV'. 11 ov youmay kep in from 10 to 15 Foot Water; the Mark to: wheg over is thus: lering a white Cafle in a Vale on the man Laid on the North fide of the Haven, over the fteep ? A.e of the innce !llond, which is on the North Shore, and - W. by N. and WN.W. with ir, till youbring a little ChaI I winin the Land to the Southward of $/ 1$ exford, or till you bemes the Chapel a Cable's kength to the Northward of the Chic yon law beforc on the $N$. fide of the high Land S. of I! find: when thede.Marks come together, you are above the Sands on the stand $\%$.

By th A Aarks yen will come without the Cafte of Itex. $^{\prime}$ fraito the S. Shureabout a Gminot; then youmay hail in by whe Cuthe whin the Soundugs of the Shore, and anchor in $\therefore$ Fa Water.
To the Sourhward of thofe Sunds on the Soundir there is a
upon th 1 L. far alfo this and yo wouh! J"icho a Scabo with M
slok: lics a 1 cially fi you wil bear ${ }^{W}$ and $m$ from th Ther where Bay for 1he callod t ty in Hill, N.W N'心 vantur 71 c Mile; Alel
lro that fa go mo \%w. Point N. anc them $10: \mathrm{lic}$ Nor $2 \frac{1}{2} 1$, black them, thort Shore but n tle on Kсср licep clear

## Sciling on the Coafts of Ireland.

ande of ne:lar ; but the Southoul camot - Fi. Wa ind, is bewhere you ep a a ittle pon thes. m S.W'. by orthermoit the Chanrof $/ 1 \mathrm{c} \cdot \mathrm{r}$
an: 6 Foot
f the $\lambda^{\prime}:=$ which was where the r thercfore, horif you
fhited, and to; and the rthward, to the pationg
: then you cdge to the cr to the W. ; the Mark Vale on the or the flecp Shore, and a littlc Chal, or till you ward of the Land S. of reabore the
fte of HC ay fail in by id anchor in
ir there is a imarelyarer
upon the Sand, which is feep too and above two Miles long. 1L. farther N. lics Avkre: Head; in this Paffuge you have alfo this Mark: Kecp // "cklow Head fair within Slificu Ilead, and you canot come foul of the Glaskerman; but if you would fail on the Bat fide of the Glarkerman, then keep /focklow Ilcad fair without the Miffen Head, and to you run a Seaboard of it, and go clear allo; if you keep it but cren with Miflicu Head, you will run full upon the faid Sand.
doklow Head is a foul Point, and at the North ond of it lics a fony Ledere, which is very ftcep and dangerous, cipecially for Ships from the North. Come not neater than 5 la. you will fec fome fmall Rocks towards the Shore; when they bear W.N.W. from you, then you are paft the flony Ledge, and may borrow of the Share again : Put tis uffual in coming from the Northward, to kecp a good Offing, to to avoid them.

There is a fine fandy Bey in the Norihof Arklow Head, where you ride fate as you pieate in 5 to 8 F. It is a famous Bay for filling for Herrays in the Scalon.

There is a Chamel over gaint Aoklow, betweon the Banks callca the Gromels, thro' which youmay rum with grear satiry in - to \& F.. Water. To pais this Chinnel, bring a round Hill, 'which you will fec whin Land, to bear from you W. N.W. or N.W. by W. and fail in with it, and go clear of the New Goomen; but if you briug the round Hill W. and then venture, you go dircaly up a it.
 Mile; there is bur one Fa, at high Warer in the taid River of Andewis fo that nothing but finall Craften in therc.

From Wixford to I'tick!ow the Coaft is N. by C. they thar tail without the Gromuds or Sands, mult go N.N.S. if they go more to the N. they will be upon the Gromds offor // ickba. Some time ayea Ship was lof there, keeping but one Poine nearer to the $\hat{N}$. and fell upon a Tail of Sand which lics N. and S. thayt of Ank'动; the Town lay W. by S. from them as they bat upon the Sand. The Grounds agatit //'icktow lic 3 Ls. from the Shere, and to the fouthward tat 1 L .
North from doklow lics Miffion had, diftance : L . and $2 \frac{1}{2}$ Ls. farther lies Wuklow-bewt. The fomer appears of a black Colour ; you have 8 to g fa. in the Fair way between them, clean Ground and good Anchoring; only that a Mile thort of Wicklow.bead lies the $W$ Uif; a finall Rock clofeto the Shore ; tis dry at half Tide: Small Boats may pals within it, but no other. Likewife cloie to the foime, and ruming a litthe out to the lourthwasd, hes the hor fi-fthe, a flony foml Sand: Kecp the high imer Land above the Land of /"icklow, or
 clear withote the lorfo-ghoe in 5 la Water.

I/'icklow-berad makes a littic double H:ll, within which is a little Chapel: When you fie the Chapel between the two Heads of the Hill, then yoli are ri he agannf the Pome; it is fleepand tiony. The Towndics to the northward of the

Boing of the Bar, you have 3 to Fa again: then you ment rin over to the foot of the Strond, and then cdge to the $N$ to aved fome Shoals which lie within the Sonnder to the IV'. Here youmberep in from 10 to 15 Foot Water; the Mark for cdeing over is thus: Bring a white Catle in a Vale on the man Land on the North fide of the Haven, over the itcep Iovin of the imer Mhond, which is on the North Shore, and - W. by N. and WN.N. with it, till you bring a little ChaSl wina the Land to the Sonthward of $/ F$ exfued, or till you buterg the Chapel a Cable's kength to the Northward of the Cotic you diw before on the $N$. fide of the high Land $S$. of It'afin!: when thatemanks come together, you are above the Smdion the semukr.

B: the Manks you will come without the Cafle of Wixfrain to the S. Shoreabout a Gunlhot; then youmay fail in by the Cafle within the Soundings of the Shore, and anchor in - Fa. Water.

To the Southward of thofe Sunds on the Someder there is a Creck which carries you thro', and where there is more Water than in the edging to the Northward. To avoid the Sands, the Ravk for this Panige is, to kecp the higheft Hummock men-
 worin the trombe.

When ships come ont of "f ixford, they ought not to lade decper than to foot till they come to the Sounder, where they may the fak from all Winds, and take in the reft of their A.adiag

They that anchor before the Bar of IVexford to wait for the Tl ad, thoud tie to the Northward of the Bar in 8 Fa. there it is clean Ground. There are always two Lights upon the ionater, to gunde the Fithermen in thro' the Channel between the Sands; they that will make ufe of them, muft keep the bishef Firdght a little to the Southward of the loweft.

To tail ont from the Bar of Wexford to the Sca, your Courle is E by S. and to on the contrary to fail m , it is W. by N. beta ixt the geat Banks called the Grounds: But if you would Within the Bank to the North, you muft run along within a Cablicis length of the Shore in 6 to 8 Fa not farther out; 'tis all cloar and lafe, and nay be palt by Night or by Day.

In this Courle about $2 \frac{1}{2}$ Ls. from Wexford Bar, you will fee an old broken Wall, which looks like the Ruins of a Church : Oppofie to this, dithant a Mile, lies a Sand called the Ram, or the Ruftiband Ram: Yum may tail on cither fide of it, but the lafeft Chand is between that and the Main, kecping in 6 or 7 Fa. Here wichin Dumpmove Point is a mall Bay, and to the North of it is a Caftic; this Canle is a good Mark to Ships off at Sea to come within the Gizonads. When you are without, brine, the Caftie a fitte to the Northward of the low Point of iceling, and you may run boldly in W.N.W. with 15 to 16 fathom.

From hence all the way, within the Banks called the Groneds, lies a far Chanal qute to Sublia Bar, in 6 to 8 Fa. Water, fewal fimill Roads and Bays lying under Shore by the way. The firt is a Sand called the Giaskerman, 2 Ls. from Duna? , we A. you miy run along between this Sand and the Shore, hat in mo more than 8 Fath. if you come to io Fay you will be

Toint $N$ and them al 10 : lie

Nort $=1 \mathrm{~L}$. black them. fhort 0 Shore but no tle out Kecp t kecp clear I/ ic littlc C Heads is ftect 'oint
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four too, an a fimall Point. Point N. and pofite +Fa . call'd $t$ bring them ic You from $B$ of $\cdot D$ : ing oft is narro of 9 D. on any a rome Ships t Patfage the Ro right in That Tatkey fide, w
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Toint nearer to the N. and fell upon a Tail of Sand wheh lies N. and S. thwart of Amkan; the Town lay W. by S. from them as they lat upon the Sand. The Grounds agante /"icklow lic $;$ l.s. fom the Shere, and to the fouthward but 1 L .

North from drklow lics Miffinhod, dillance a $L$ L. and at Ls farther hes Whkitow hoad. The fomer appears of a back Colour ; you have s to gla. in the Fair way between them. clean Ground and good Anchoring; only that a Mile thort of 1 ficklow head lics the $/$ 'olf, a tmall Rock clofe to the Shore ; 'tis dry at half Tide : Small Boats may pats within it, but no other. Likewife cloce to the Point, and ruming a litthe out to the fouthwad, hes the Mor fe-sther, a fony fond Sand: Kecp the high imer Land above the Land of /f icklow, or
 clear without the $I$ brge-lioce in 5 Fa Water.
l/ichbë-bead makes a litide double lthl, within which is a little Chapel: When you fee the Chapel between the two Heads of the Hill, then you are righe againt the Jome; it is iteep and fony. The Town lics to the northward of the Point in the Bay; there is but 10 Foot at high Water in the Hwen, and there is no good anchoring in the Bay: The Ground is hard and rocky, and 'tis not much better withour.

Here is a Chamel berwecn the Grounds, as at Ariblow; to pats which, kep the Caltle of Wriklow, open of the Point, that is mark enough ; or keep the l'oint of Land, which lies a Leaguc to the northward of Wricklou, on with the Suarelouf: bill, which will then be abost N.W. halt W. from you; and that will carry you into W'ichow. You have 8 to 10 Fa. in the Channel betwecn the Sands or Grounds.

Four leagues from hence N. lies Brab Point, being feep too, and the higheft Land on this Coaft. Between them lies a finall Fothing Town calld North Cidfle, with a finall flat Point. At the Town you have 4 to 6 Fa . but from the Fht 'Point to birabloint is 13 to 14 Fa. The Coaft trends away N. and N by W. Southward trom this Brat-bead, and oppofite to the Sugar-loaf-bill, lies a foul ftony Bank, but it has ${ }_{4}$ Fa. Water over it. There are thace Hills within Land here, calld the Cineyerds; the Surem-loat is the firthet of them; bring all the three in a Line one within the other, and kecp them to ; you may run tafely with it between the (irounds.

You are now pals'd all the Banks call'd the Gromids; and from Brab-brad to Matker, Which is the S. Point of the Bay of ' $D_{0}: b /$ izi, is but 2 Ls duc $N$. Yalkey is a little Ifland ly' ing off' of the Point calld' Datkey Point; we Paffage between is narrow, but has a good dept! of Water; 'tis calld the Sound of $\mathcal{T}$ Datkey, and has 7 to 9 Fa. And there is, good anchoring on any fide, either by the Mland or the Main: Nay, there is a romd Rock near the Main, where they often moor their Ships to the very Rock; the Current is ftrong, and the Palfage narrow, to that fometimes Ships moor a-thware from the Rock to the Illand. The S.S.E. and S. by E. Winds blow right in, but 'tis to narrow there can go no very great Sod.

There is alfo another Illand calld Aiuggel, which lies off of Talkey; and there is a finall narrow Chamel likewife on that fide, with 5 to 6 Fa . but the Ground is not good.

## Directions for Sailing on the Cor

From Dalkey begins the Bay of T)ublin; you fail into it N.W. by W. The Road at the Town of Dalkey is tolcrable for a S.E. Wind, but bad if more calterly ; there is 8 to 9 Fa. but not good Ground, effecially to the weftward.

All the way from the 'Tuskar Rock, of' of St. Margorct's Bucy, to this Point of 'Dalkey, the Sands calld the Cronuds lic parallel with the Shore ; and they have Openings and Channels between, over-againf all the Ports and Harbours, as is defcrib'd above. They are flecp too on both fides, but efpecially on the E. or ourficie; for they have 10 Fa . Water clofe to them on the infide, and 20 Fa. on the outfide, fo that no Ship ought to come nearer than 24 to 25 Fa . on the Off-fide ; they have in fome Places but 5 or 6 Foot Water upon them ; at the N . end indecd they have $2 \frac{1}{2}$ to ${ }_{3} \mathrm{Fa}$. but fony and foul Ground; they lic in fome places 3 Ls. from the Shere. in others not above $2 \frac{1}{2}$, and trend along N. by E. and S. by W.

If you would go withour them to the northward, you mult lie fo to the N . as to keep the Illand calld Ireland's Eye without the Hoath TPoint; and by that Mark yougo clear into the Bay of 'Dublin.
N.B. The Tide in St. George's Cbamel is double; the S. Tide flows northward, and the N . Tide flows S. And they mect againft Carlingford Bay, where they make a Race, the two Floods checking one another: Then the Ebbs fer back again in the fame manncr.

From this Bay of Dalkey, the Bar of Dublin lics due N . diftance 2 ; Ls. You have from 5 to 8 Fa. Water all the way ; the nearer the Bar the fhoaler. But as you have Pilors always ready here, we need give you no Directions for tailing into 'Dithlin Harbour: The Pilots carry the Ships up to the Key, or to the Pools, where they may lic a-tloat according to what Water they draw.

Firft, to come to the Bar, keep the weftermoft Rock off of Dadkey a Handipike's length open from the Illand, or of all the other Rocks: This Mark will bring you right off the Bar.

There are two great flat Sands, whil ic one on cither fide the Harbour : One is call'd the Soutb Butl, and the other the Nortb Bull; they are both dry at low Watcr. There runs a narrow Tail from the Soutt, Buth, which with a fimall bending Circle caftward crofles over, and joins the E. end of the North, Bull Sand: And this makes the Bar of Tublin, diftance from the City about 5 Miles E. Upon this Bar is a Buoy, and a Beacon upon the S.W. Point of it, where it joins the Sout/) Bull.

If a Ship makes for the Bar from the $S$. the muff ftecr directly with the low Lands of Hoath N. by which the will come fair with the Buoy: If from the northward, flhe muft run clofe about the loint of Hoath, and along under the $\mathbf{N}$. Shore, rill flec comes to the Bar, which is decpeft alio on that fide. Ortake it thus:

If from the N. kecp S. till the Head of Hoath bears N.N.W. and then go in W.by S. for the Bar. If from the S. bring the Rock call'd Aluegull, which lies to the N.E. of Talkey Point, to bear S. and then run in N.N.W. Or bring Ircland's Eye to

Shorc. and cult ; you you. In the but'tis alfo the Wind ic

Tunidalk a good Bay Watcr, you ling for d, d lent Harbou or 10 Foot flows 2 Fa. trance call'd of it, and $k$ no nearer to ftony ; but after you ar

From the over to the the Starboar Channel in to the Point is a Ledge o

From this into the R depth you may allo or Cable.
River Nury within, is t for fmall $\mathrm{C}_{\mathrm{r}}$

Ealt from
having but them and t Rocks N. b And 2 Ls. : which is tho bold Shore,

From $A r$ tance 5 Mi 4 Milcs up, to the great From th to Port $F e$ which lic b them andt Ledge of board. As Bally Hav Bring the S pofite to $y$ nearer tha foul and fitd lic $\mathrm{t} \div \mathrm{L}$. f os the Sou

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 crable 9 Fa .arct's ountds Chanas is cfpe: clofe hat no ffide hem ; Id foul re. in y W. a muft withto the

## the $S$.

And 1ake a en the

Shore. and plain to be feen. The Haven is nermon and diffecult ; you mult make Signals for a Pilot, who will come oll co you. In the way, $\frac{1}{3}$ L. from Lambey, is the Rock calld Abei; but 'ris allo to be feen, and you may go farr on cither fide, a's the Wind ferves you.

Tundalk is the next Port to $\operatorname{Droghoda}$ due N. diftance 6 L . a good Bay, but no Haven fie for Ships; 'tis all dry at low Water, you may walk over it ; but 'tis well fupplied by Car. ling ford, diftance 3 Ls. E. from $\mathcal{D}$ undatl. This is an excellent Harbour, tho with a difficult Entrance ; the Bar has but 9 or io Foot at low Water, tho'tis near a League wide; but it flows 2 Fa , at ordinary Tides. There is an Ifland at the Entrance call'd Haul. Bo-3iline Ifland: Be fure to go to the caftward of it, and keep no nearer to the Illand than 7 Fa . Water, and no nearer to the Main than 3 Fa. for both Shores are fonl and ftony; but the Channel is fair, being halfa League over: And after you are over the Bar, there is 7 to 20 Fa. Water.

From the Ifland keep the Fair way Mid Channel up, going over to the W. Shore, leaving another Ifland call'd Giternc on the Starboard. Between that and the Main you have a fair Channel in 7 to 8 Fa . Water; only give not too large a Birtls to the Point of the Ifland, for about half a Mile N.E. from is is a Ledge of funk Rocks.

From this Point ftecr N.W. about $2 \frac{3}{2}$ Miles, and you come into the Road of Carlingford, where you may ride in what depth you pleale from 7 Fa to runang a ground, which you may allo do in foft Ouze, and fit late without Anchor or Cable. 4 Miles above Carling ford is the Entrance into the River Nury, where you have 3 Fa . Water; and 2 fmall Ls. within, is the Town of Nury, but no depth of Water, except for fmall Craft.

Eaft from the Bar of Carling ford $1 \frac{1}{3}$ L. is a Ledge of Rocks having but 8 Foot at high Water; but the Paffage between them and the Shore has $\mathrm{S}_{\mathrm{g}}$ to 12 Fa . And 5 Ls. from thoie Rocks N. by E. is 'Dundrum, a little but very good Haven. And 2 Ls. farther E. is St. 'Fobn's PPoint, under the N. fide of which is the Haven of Arglas, all which is fair and open, a bold Shore, and no danger.

From Aigles, N.E. by N. is the Haven of Strangford, diftance 5 Miles: And within the Entrance on the ${ }^{W} W$. Shore, 4 Miles up, lies the Town of Stratgford, at the Entrance in. to the great Lake call'd Strang ford Lough.

From the Mouth of Strang ford Haven the Coanlies N.N.W. to Port Ferry: There are a Ledge of Rocks in the way, which lie bare at half Ebb: Keep the middle Channel between them and the Main. After you are paft then, theres another Ledge of Rocks by the E. Shore ; Icave them to the Starboard. As you go in above 'Port lirry, there is a Road calld Bally Haven, where there is a funk Rock juft before the Road. Bring the Saddle of two Hills which are on the W. Shore oppofite to you, and then you may go boldly in; but come no nearer than in 4 Fa. Water, for the Greund is every where foul and ftony. The Rocks call'delie North and South Rocks Iic i $\frac{1}{2}$. from Strallsford Harbour. E.N.E. from the S. end os the South Rock lies a Ledge of Rocks, at Leaft halfa League into the Sca: and from the N.E. end another. That calld
the Harbour: One is call'd the Soutb Bull, and the other the North Rull; they are both dry at low Water. There runs a narrow Tail from the South liull, which with a fmall bending Circle caltward crofles over, and joins the E. end of the North, Bull Sand: And this makes the Bar of 'Dublin, diftance from the City about s Miles E. Upon this Bar is a Buoy, and a Beacon upon the S.W. Point of it, where it joins the South Bull.

If a Ship makes for the Bar from the $S$. the muft fteer directly with the low Lands of Hoatl N . by which the will come fair with the Buoy: If from the northward, the muft run clole about the loint of Hoath, and along under the N . Shore, till the comes to the Bar, which is decpeft alio on that fide. Ortake it thus:

If from the $\mathbf{N}$. keep S. till the Head of Hoath bears N.N.W. and then go in W.by S. for the Bar. If from the S. bring the Rock call'd Muggull, which lics to the N.E. of 'Talkey Point, to bear S. and then run in N.N.W. Or bring Ircland's Eye to the weftward of the Hoath-bill, that brings you directly to the Bar: Or bring a Tower which is to the weftward of Hoathbill. on the Hummock which is on the E. cnd of Lambey; that is alfo a leading Mark to the Bar.

You may go over the Bar on either fide the Buoy: When you are over the Bar, the Sugar-loaf over Mall-bill is your Mark to come to an Auchor in Pool Beg. In the Iron 9 Pool you have ${ }_{4} \mathrm{Fa}$ at high Water. Bring the Sugar-loaf over the low Hill before it, then you are in the beft of the Road. The S.W. Winds blow here with flrong Gufts from the Hills, and the Sands round the $P$ Pool are all dry at low Water.

A Mile above the Irou Fool is Clantar $f$, a little Pit, where there is 9 to 10 Foot at low Water; but the Ground is dry all round it, and the room to ftrait, that the larger Ships lie below at Pool Beg.

The lloatls is the N. Point of the Bay of Tublin, without the Bar; there is good anchoring, and clean Ground on every fide of it, only not too clofe to the Shore, and except about a Cable's Iength off of the S. Point, where is a fmall Shoal, tho with ${ }_{4}$ Fa. Water.

North from the Hoath lie two Inlands, firft, one call'd Ireland's Eye, and the other N . of that, call'd Lambey. The firlt is the finalleft ; there is a good Road on the W. fide of it over-againtt the Chapel: But on the S. end of it lies a Rur. of Rocks, and on the E. a high Rock call'd the Stags. Overagainft this Ifland is a Village call'd Majcheal, with a Haven for timall Veffels. On the $N$ fide of Lambey is a good Road tor a foutherly Wind; but for a Sea Wind you muft weigh and be gone, for there gocs a very high Sca; in fuch cale you may ride on the W. fide near a large Houfe, but 'tis a wild Read there alfo.

7rogheda is the next Port from Dublin; the Courfe is N.N.W. diftance 7 Ls. from Lainbey: 10 Ls. from Dublin, mid-way, lie the Skizice, which are certain Rocks clofe to the

From tance 4 Miles to the

Fron to Por which 1 them a Ledge board. Bally 1 Bring t pofite ncarer foul an lic $a \frac{1}{2}$ of the into th the $N$ at leaft hazarde is a fai felves,

Two you m it $\mathrm{N} . \mathrm{N}$ above Rock a call'd N. by and tro Cope open w fide of Point Paffage betwec Water too nc: Rock a arc alfo the Me Copelar to Car Carr gradual tarice trance, Carric Pier a x Mile
other the here runs a all bending the Nort/s tance from 1oy, and a Souts Bull. Atecr directwill come $c$ muft run der the $N$. alio on that

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 3. bring the they Point, d's Eye to directly to d of Hoath. f Lambcy;oy: When ill is your Iron Pool af over the f the Road. I the Hills, ater.
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lin, withGround on and except is a fmall
call'd Irenbcy. The . fide of it es a Ritr of zgs. Overh a Haven good Road weigh and ch cale you t'tis a wild
e Courfe is m Dublin, clofe to the

From Airgles, N.E. by N. is the Haven of Strangford, diftance 5 Miles: And within the Entrance on the $W$. Shore, 4 Miles up, lies the Town of Strangforl, at the Entrance into the great Lake call'd Strung ford Lough.

From the Mouth of Strangford Haven the Coaft lies N.N.W. to Port Ferry: There are a Ledge of Rocks in the way, which lie bare at half Ebb: Keep the middle Cliannel between them and the Main. After you are paft them, rhere's another Ledge of Rocks by the E. Shore ; Ica e them to the Starboard. As you go in above 'Port licrry, there is a Road call'd Bally Haven, where there is a funk Rock juft before the Road. Bring the Saddle of two Hills which are on the W. Shore oppofite to you, and then you may go boldly in; but come no nearer than in 4 Fa . Water, for the Greund is every where foul and ftony. The Rocks call'd the Nortis and Soutb Rocks lie $1 \stackrel{2}{2}$ L. from Strangford Harbour. E.N.E. from the S. cnd of the South Rock lies a Ledge of Rocks, at leaft half a League into the Sea; and from the N.E. cnd another. That call'd the North Rock is a great Range of Rocks ftretching N.N.E. at leaft a L. many of which lie funk at high Water, to that 'ris hazardous to venture between them and the Main: But there is a fair Sound between the North and South Rocks themfelves, with good clean Ground, and 6 to 8 Fa . Water.

Two Leagues from the South Rock N.N.W. lies a Shoal ; you mult come no nearer to it than 8 Fa . And 9 Miles from it N.N.W. is a Rock call'd the Plow, well known and feen above Water at half Tide. Half way berween the Nort/j Rock and Bally Water lies a fmall Illand near the Shore, call'd Burcal. From the Nortb Rock to Copeland is near 6 Ls, N. by W. and N.N.W. the Soutb Rock half a League more; and from the $P$ low is 8 Miles N.N.W.

Copeland is an Illand lying E.by N. from Carrickfergus, open with the Bay, 2 Miles from the Land due E. On the W. fide of it lies a lunk Rock: of a Mile N.E. from the Flat Point; there is not above 3 Foot Water upon it : Bat the Paffage between this Rock and the Point is good; the Sound between the Ifland and the Main is very good, and 7 to 8 Fa. Water ; but the fide next the Main is foul, therefore come not too near, and elpecially to the northward. There lies a funk Rock a quarter of a Milc off from the very next Point. There are alfo two little Iflands N . of Copeland, viz. the Crofs and the Mew ; but there is a very good Sonnd between them and Copeland, a Mile broad, and 7 to 8 Fa . Water. From hence to Carrickfergus is 3 Ls. W. by N. half northerly.

Carrickfergus Bay is 6 Ls. broad at the Entrance, narrowing gradually to Belfaft, where it is only ${ }^{\frac{3}{4}}$ of a Mite broad, dittance from the Mouth of the Bay s Ls. = Ls. within the Entrance, and on the N . Shore, ftands the City and Caftle of Carrickfergus ; the Road is good before it, and there is a Pier at the Town, but dry at low Water. S.by W. diflance a Mile lies a Bank of Sand, which has on it $x \frac{1}{2} \mathrm{Fa}$ at low Wa -
ter ; it lies jult before the Road. It has 2 Fa. to the $N$. and to the S. then farther S.W. 3 , and in the middle of the Road ${ }_{5} \mathrm{Fs}$.
S.W. from Carvickifergus lies Carmoyl Road, diftance 5 Miles: There is a long Spit runs out from the $N$. Shore: Therefore to come into Carmoyl, you muft run up into +Fa . at low Water ahmoft to the $W$ ljite-boufe. Bring Caftle Rock upon a little Village which hands on the Shore; and then run two thirds over, and you are fair before Carmoyl.

Carmogl is the Road where Ships ride which are bound to Belfaft. The Caftle Rock Itands on a Hill to the E. a little above Carmoyl; you have decp Water in Carmoyl, but cxtremely full of Weds in the Channel. From thence to Bel feift there are feveral Beacons or Poles to direct the Courfe ; but if you are unacquainted, there are Pilots at Carrickfergus.

To the N. of Carrickfergus lics a Harbour calld Old Flect, diftance 2 Ls. Two flat Towers, one higher than the other, like the Fore-fail and Main-fail of a Ship, and which are on the N. fide the Bay, are Marks to know it by : Alfo at the S. Point of it lies an Inand call'd the Knee, which is another Mark. But from the N. Point of Carrickfergus you mult go away N N.E. at lcaft 4 or 5 Ls. to keep clear of the Rocks call'd the Alaidins, which lic N.E. by E. off of Carrickfergurs.

There is a Rock call'd the Hunter, which has but 2 Fa. Water; to go clear of it, if bound to the northward, you muft keep Kinee Ifland clofe with the Main, and then you are withour it; but if Kinee Ifland be open with the Main, then you are within the Rock : Allo if going into Learn you keep Brown's Point oppofite to the Caftle of Carran, then you are right againft this Rock. So when the Rock of Ballegill Mountain is right with the Middle of the Mount it felf, then you are juft upon this Rock, and may fec the Rippling of the Sca upon it : tou may sun about the Knee into Learn with all fafery.
'Tis very dangerous to come near the Maidens by 2 Ls. there are fo many of them under Water, and they reach to far into the Sea on all fides of thofe which are to be feen. There are fome Paftages between them which might be made ufe of in Extremity, but 'tis next to Defperation to venture it. To come from the N. you muft go off to Sea S.E. by E. at leaft 3 Ls to go about them.

From ()ld Fleet the Courfe lics N. to Fair Foreland 8 Ls. a bold Shore, and nothing to fear ; and under Ratblin Point :s good riding in 8 to 9 Fa. Water, and fafe from cafterly Winds: You may lail round the Mland of Rathlin as Wind or Tide directs. There is a fine Bay on the S. fide of it, with clean fandy Ground, and fecur'd from all Winds that blow. As you come from the W. you fee no Opening. Within the Inand is another fmall Inand almoft clofe to the Main, call'd Sheep I land; you may go thro'between it and the Main; all is fate, except that on the $W$. are a Ledge of Rocks, but they lic above Water, and the Channel is every where good.

You are now at the Extremity of the Ifland on this fide; and your next Courfe, which is to the Skerres or Port Rugh, is W. by S. diftance 4 Ls. About 2 Miles to the E. lies a Shoal

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## for Sailing on the Coafts of Ireland.

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tance ${ }_{5}$ Miles: Therefore to at low Water upon a little run two thirds
arc bound to the E. a little rmoyl, but exheuce to Bel eCourle ; but rickfergus.
alld Old Flect, nan the other, which are on Alfo at the S . ich is another y you mult go he Rocks call'd ckfergus.
sbut 2 Fa. Wa, you mult kcep ou are without then you are kecp Brown's you are right legill Mountain ien you are juft the Sca upon it : all fafety.
s by 2 Ls. there cach to far into :n. There are made ufe of in enture it. To . by E. at lcaft

Foreland 8 Ls. Ratblin Point $^{\prime}$ e from cafterly blin as Wind or fide of it, with nds that blow. g. Within the he Main, call'd the Main ; all locks, but they cre good.
in this fide; and rPort Rufb, is e E. lics a Shoal wixt- it and the

Road. This Skerres is an Illand or great Rock ; but on the S. fide is a fair fandy Bay, good clean Ground, and Water c. nough, and fecure from all Winds except E.N.E.
S.W. of this Ifland of Skerres is Band Haven, which gocs up to Colerain: The Haven has not above 8 Foor Water, and a molt furious Current upon the Ebb; io that 'tis at leaft three quarters Flood before any Veffel can go up the River.

The next Port to this is the Entrance into Lough Foil, going up to Londouderry, the Courle N.W. by W. from the Skerres, diftauce 3 Ls. and W. by N. from Band Haven: The Entrance is very large and deep. Before the Mouth of it lies a great Sand call'd the Tunns, running from the E. Point of Lough Foil 2 Miles $N$. and when the Wind is off Sca, the Water breaks upon it with a prodigious Noife. Small Ships may run into the Lough to the fouthward of this Sand by the E. Point of the Harbour ; but there is but 3 Fa at high Water, and the Paffage very narrow; but the beft Paffage is on the W. fide, where there is a broad Channel, and 14 to 15 Fa. Water, and off of Magalliaut Point 8 to ro Fa.

After you are enter'd within the River, or Lough, you have two Channels, the right Channel is under the W. Shore: To find the Fair way, when you are in the Offing bound in, look out for a little Bay juft within the N. Point, and on the W. fide of the River; and under the high Land of the Shore bring this Bay open from the N. Point, and you are fair with the W. Paftage ; then run in along by the Land S.W. till you come off of Gicen Caftle.

From Green Caftle to Red Caftle keep the W. Shore a-board, and all is fafe and clear; whatever is capable of doing hurt is to be feen. You may ride off of Green Caftle, fo as to fee White Caftle without Green Caftle Point. Going on from thence for the Town, keep ftill the W. Shore, only fhun an Oyfier Bank, which טegins an that fide about Red Caftle, and ftrectics on to the Tbree Tree's; there the Ships ufually come to an Anchor.

From this Road you go to Culmore Caftle, which is at the Entrance of Lons's Fonl to the River of Londonderry; Atill kecp the W. Shore on board, 'tis all fafe to Culmore: After that the Charts will be fufficient, or you may have Pilots up to the City.
N.B. Whoever are outward bound from Lough Foil, hould be furc to take the laft Quarter of the Ebb Tide only to run our, becaufe the firft Ebb fets right over the Tuins, and will force the Ship upon them, unlefs fpecial care be taken : But the laft Quarter of the Ebb fets N N.W. Keep that Courfe, tili you open the Head of Coldoff? and then you are clear of the Tunns; then go N.E. by E. to get clear of the Mland of Rathlin.

From the W. Point of Lough Foil to Enferball is 4 Ls. W.N.W. This Enfterball, or Enferbull, is a Clufter of finall black Rocks, which appear but juft above Water, lying off of Emiftbone, which is the moft northern Land of Ire-

Tome Pallage verween then which might be made ufe of in Fattemity, but 'tis next to Defperation to venture it. To come from the N. youmult go off to Sea S.E. by E. at leaft 3 I.s to go about them.

From ()ld Flect the Courfe lies N. to Fair Foreland 8 Ls. abold Shore, and nothing to fear ; and under Ratblin' 'Joint ss good riding in 8 to 9 Fa . Water, and lafe from cafterly Wimds: Youmay lail round the lland of Rathlin as Wind or Tide direcls. There is a fine Bay on the $S$. fide of it, with clean findy Ground, and fecur'd from all Winds that blow. As you come from the $W$. you fee no Opening. Within the Inaind is another fmall Inand almoft clofe to the Main, call'd Sheep 1 /and ; you may go thro' between it and the Main ; all is fate, except that on the W. are a Ledge of Rocks, but they lie above Water, and the Channel is every where good.

You are now at the Extremity of the Illand on this fide; and Your next Courfe, which is to the Skerres or Port Ruflb, is W. by S. diftance 4 Ls. About 2 Miles to the E. lies a Shoal call'd the Chickens, but there is 40 Fa. betwixt it and the Shore, and 50 to the eaflward. There are lunk Rocks in the mfide of it, to that unlets you are acquainted come not there. $2 \frac{1}{2}$ Ls. caftward lies Port Ballantay, but 'tis a daugerous

Cntr.

Sailing Directions for the Coaft of Ireland, fro North, to the Loups-Head at the Mo


ES T South Weft from Enferoull is the Entrance into Lough Swilly, diftance ${ }_{4}$ Ls. 'Tis an excellent Haven, able to receive a Royal Navy, but little frecuuented, becaule here are no Ports of Trade: The Entrance is on the E. fide, clofe by the Shore.
W.S.W. from hence is Sheeps Haven; 'tis a large wide Harbour, and you lic fecure from all Winds: But in fome places it is rocky and foul. However, it matters not much; for here alfo want of Bufinefs renders the Haven ufelefs. The W. Point of Shecps Hazen is calld Cape Horn, nam'd fo from a Hill which has two Heads like two Shecps Horns. To the W. of the Point is a dece Bay, where is good riding within the Rocks. and another betwcen Lough Swilly and Shecp Haven. Half a Leaguc off to Sca is a Ledge of Rocks, bare at low Water, but cover'd at high Water : Ships may in cafe of neceffiry fail within them, but 'tis much better to go round.
W.N.W. from Cape Horia lies Tory Ifand, or in Irifh Accoptation the I/land of Thieves. S. from it lie four Inands, calld the Ifainds of Ballyne/s; you may pals between Tory Ifaud and thofe four, and there is a good Road within the Rocks in the Paffage, where you are fecure from foutherly or calterly Wiuds.

Thi Ifes the $I / 6$ lic the withir 'tis dr. fevera If greate you ca an An Roads Bays them

Yo The F the C linben Therc with a Ne round it you athlin' 'Point rom cafterly as Wind or of it, with that blow. Within the Main, call'd c Main ; all ks, but they good.
his fide ; and 'ort $R u / h$, is . lics a Shoal at it and the Rocks in the oc not there. a dangerous

Entrance of Loth's toul to the River of Londondenty; ftill keep the W. Shore on board, 'tis all lite to Culnore : After that the Charts will be lifficient, or you may have Pilots up to the City.
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From the W. Point of Lough Foil to Eufterball is 4 Ls. W.N.W. This Enfferball, or Enferloull, is a Clufter of finall black Rocks, which appear but juft above Water, ly. ing off of Emifthone, which is the moft northern Land of lreland. There is a Paffage between thole Rocks and the Main; but 'sis very dangerous, there being many bad Shoals and Rocks in the Channel: But you may ride under the W. fide of Eimiftboue on extraordinary Occafions.

## Ireland, from Enfterhull upon the fartheft $\mathcal{P}_{\text {oint }}$ ad at the Mouth of the River Shannon.

he Entrance an excellent $\gamma$, but little s of Trade : py the Shore. large wide But in fome not much; felefs. The 2, nam'd fo eeps Horns. good riding Swilly and sc of Rocks, hips may in petter to go
n Irifb Acfour llands, Etween Tory within the foutherly or

This is a fafe Coaft all the way from Cape Horn to the Ifles of Arran, with good Ground, and fecure from Winds; the Illes of cirran lie S.W. diftance 6 Ls. N.E. from Arran lie the Stags of Arran, which are a Ledge of high Rocks, within which is a Haven call'd Klady, and by tome 'Dore; 'tis dry at low Water, fo 'tis of no great ule ; and there are feveral fmall Iflands off it.

If you would go to Arran from the $\mathbf{N}$. keep clofe by the greatett of thofe Inands, leaving it on the Starboard Side, till you come to the E. fide : Then itecr away S. and fo come to an Anchor on the S.E. fide. There are every where good Roads either under the lland or the Main, as allo feveral fine Bays and Harbours withour Names; wanr of Trade rendring them unfrequented, and therefore unknown.

You arc now upon the N.W. part of the Coaft of Ireland: The Point is call'd Cape Telling, 'tis diftant from Arran 7 Ls. the Courfe S.S.W. Off of the Point is an lland call'd Kath. linben; the Sound between is very fafe, and deep Water. There is a Haven under the Cape, calld alfo Telling Hazien, with a good Road fecure from all Winds from W. to E.S.E.

Next to Cape Telling is Kilbegh, S.S.E. diftance ${ }_{4}$ Ls. a fine round Bay, a good Road, and clean Ground : At coming to it you fee no Openiug at firft, nor is it very broad; but when

## Directions for Sailing on the Coafts

you are in, 'tis all fafe, as well in the Entrance as in the Bay; and you may lie where you plestic in 5 to 8 Fa . Water. On the N. fide in the Bay is the Caftle for Sccurity ; you will know the Bay by a little low flat Ifland, plain at both Ends; it lies W. of the Bcy, diftance half a League.

St. Fobnis Pooint lies W. of Killeg', diftance 5 Miles, running out iuto the Sca above a Mile; and farther W. lies a great fink Rock, you'll know it by the Sca breaking upon it with a terrible Noile; but you may fail fafely within it: Between Kilbigh and St. Yobn's lies a Bay call'd Mac Swain: 'Tis a good Bay when you are in, but dangerous at the Entrance, by reafon of feveral Rocks in the Palfage.

Eaft from St. "\%olvin's, diftance 2 Ls. lics Dunagall Harbour ; 'tis difficule going in there too, the E. Shore is very foul. There is a little Caflle on the N . fide, and there lies a Riff over-againft it, fo that you muft avoid that alfo. When you are about the Riff Toint, fand over to the N . again, for the S. Shore is flat ; but by cutring on the $\mathbf{N}$. fide, after you are paft the Riff,' 'ris all good.
S.S.W. from Dunagall is the Haven of Ballefbannon, diftance 2 Ls. And W. from Ballefbannon, diftance; Ls. is Enifmurry; there are fome Roads between, where Ships may ride in fafety, as Bundorf, Bundat, and others of lefs notc. Enifmurry is a little Ifland half a Leaguc long: At the S. cud of it is a large Rock above Water ; and from the Rock a Ledge of fmall Rocks, which run out a great way into the Sca. On the S.E. fide, 'ris all good and fate.
S.W. by S. foutherly from Enifinurry lics Ballenden Point, diftance 8 Miles. There are fevcral Iflands and funk Rocks all the way from thence to Rala Point, fo that this is a dangerous Coaft.
S.E. by E. from Rala Point is the Haven of Sligo, diftant 4 Mile : 'tis a good Haven when you are in, but full of Rocks and Shoals in the Paffage. Duc S. of Sligo is Clonick Bay, of little ufe, becaufe little frequented: Weft from which Bay is Aloyl Harbotr, diftant 6 Ls. at the bottom of a deep Bay. Two Ls. up, juft before it lies a long Ifland, which makes the Harbour, being fothwart ir, that there isbut one Entrance. At the W. end of this Ifland is a Riff, which makes the Channel narrow and difficult. There is a fmall green Illand in the Harbour, where finall Ships come to an anchor, and great Ships under the Long Ifland.

No Ships go up to Moyl that draw above 8 Foot Water; 'tis a forry Port, and dry at low Water. At the Town indecd it is decp, but the Shoals are in the way thiticer.

Weft from the Port of Moyl, a little North, lie certain Rocks called the Stags of Broad Haven, diftant 8 Ls. with teveral Bays and Coves between, but of little ufe. Thefe Rocks lic off the E. Point of Broad Havell, running N. by W. 2 Ls. In the way between lie 4 other Rocks, which if you go into the W. Entrance of the Haven, muft be left to the South.
S.W. by W. from the Stags, diftant 7 Miles from Broad Haven, lies an out Point ftretching to Scaward; and $\varsigma$ Ls. from thence S.S.W. lies a great Rock called the Black Rock; and 2 Ls. SS.E. from that lies Acbil-bead, fo that Acbil is from

1 llands is 7 L Paflages into 1. Within the Main; 't Main: for $t$ nel over. T Channcl, anc quite thro'.
2. The ne the Little $A$ Middle Ifanc it is foul at t Shore, youn 20 Fa .
3. The thi Ifland and the ing clear on b
4. But the North Sound of the Wefter being rocky way lics her Sound to $B /$ 7 Ls. and fro Ifland is at t L. TotheW Rocks; they row Channcl have ${ }_{5} \mathrm{Fa}$. W Road, wherc pond, good near 3 Fa. up low Water,
There are of this Bay. Naffdoy. T you have dec Convit lics ceeding large Entrance nar Miles broad. current, 5 Fa Fa. in the mia Harbour.

From Naf Kronkara; nother inc Farther in lice of the N . Sho all within ti: Conichin you the Bay 7 to Rocs 1 Nand a fair way; but rocky on bo

From hen

## on the Coafts of Ireland.

Inands is 7 Ls. the Courle S.E. by S. Thefe Illands make four Paflages into the Bay.

1. Within the Ine of Shere, or Yittle Arran, between ic and the Main; 'tis a bold Paflage, keeping to the Shore of the Main : for there lies a great Shoal on the other fide, half Chane nel over. This Chancl is called the south ${ }^{2}$ 'afjuge; 'tis a late Channel, and in the fair way you have is to 16 lia. Water quite thro'.
2. The next is called the Falfe Paffige, and lies between the Little Arran and St. Gregory's Iflc, which is called the Middle Ifland: 'tis narrow and dangerous, and leldon uled; it is foul at the S.W. Entrance, but if you keep S't. Gregory's S/sore, you may run thro', for there is Water enough, at leale 20 Fa .
3. The third is St. Gregory's Sound, between the Miditle Illand aid the Weftermoft ; this is the belt of the three, be. ing clear on both lides, and decp.
4. But the fourth is the broadeft of all, and is called the North Sound: It is at leaft 2 L.s. broad; but you muft keep off of the Weftermoft Ifland at leatt half a L. the Shore on that inde being rocky and foul for a great way into the Sea. The fais way lies here E. and W. From the Entrance into the North, Sound to Black.bead, being the firf Point to the Starboard, is 7 Ls. and from thence to M/ution J/and $3 \pm$ Ls. This Mhti:ioin Ifland is at the Entrance into the Road of Galleiay, diftant I
L. To theW. of this Inand is a Ledge of Rocks called the Biace Rocks; they lic half a L. from the Shore: But there is a narrow Channcl between the Ifland and the Main, in which you have 5 Fa . Water. When you are thro', you are in Galliway Road, where you have allo 5 to 6 Fa. and you lic as in a Mill. pond, good Ground, and lafc from all Winds. It flows here near 3 Fa. up and down; fo that the Rocks which lie bare at low Water, Ships fail over without fear at high $W_{\text {ater }}$

There are feveral good Roads and Harbours on the N. Shore of this Bay, as the Inlands of Convit and Coukette off of Port Naffdoy. The Sound berween is good, and a Mile broad; you have deep Water into Naffloy 7 to ${ }_{14} \mathrm{Fa} . \quad 2$ Miles E. fiom Convit lics the famous batterby Bay, which is, tho exceeding large, a meer Harbour Landlockr on cvery fide; the Entrance narrow like a Haven, but within 4 Miles long and 2 Miles broad, every where fate, good Ground, decp Water, flill current, 5 Fa Water clole to the Shore on both fides, io to ia Fa. in the middle. Great pity there is not more ule for to fine a Harbour.

From Naffloy S.S.E. diftant 4 Miles, lics an Inand called Kronkara; 'tis clear and good riding; but betwixt that and another Ine called the Macs, there is wo paffing for Rocks. Farther in lics Conichin Bay: to go thither you mult keep of of the N . Shore, and without all the llands, in at leaft 6 Fa . all within tise depth is foul and rocky. In the Entrance into Conichin you have 12 to 15 Fa . Water; and in the bottom of the Bay 7 to 9 Fa . You have allo a fair Channel between the Rocs Ifland and Millan, being a Nile over, and 12 Fa in the fair way; but you muft keep Mid Channcl, for'tis foul and rocky on both fides.

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Aarbour, being to thwart it, that there is but one Entrance. At the W. and of this Inland is a Riff, which makes the Channel narrow and difficult. There is a fmall green Inland in the Harbour, where fmall Ships come to an anchor, and great Ships under the Long Ifland.

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Weft from the Port of Moyl, a little North, lie certain Rocks called the Stags of Broad Haven, diftant 8 Ls. with feveral Bays and Coves between, but of little ule. Thefe Rocks lic off the E. Point of Broad Haven, running N. by W. 2 Ls. In the way between lie 4 other Rocks, which if you go into the W. Entrance of the Haven, muft be left to the South.
S.W. by W. from the Stags, diftant 7 Miles from Broad Haven, lies an out Point Atrctching to Scaward; and 5 Ls. from thence S.S.W. lics a great Rock called the Black Rock; and 2 Ls. SS.E. from that lics Achib-bead, fo that Achil is from Broad Haven in $\div$ Ls. It is a vary high Point, and flacws it felf at a diftance with a Saddle or Hollow in the middle; and within it are two Mountains extracrdinary high; which aitugether appear at Sea like 3 Inlands. Aclil is an Inland, and you may lail between it and the Main ; but the two Mountains are on the Main, between Broad Harent and Acbil, and between the Black Rock and Broad Havert. From Acbil there is a Sound or Paflage into Broad Haven; fo that you may ride any where: 'tis all but as one Harbour. There is a decp Bay between the Mland of Broad Haven and Achil, which will allo let you into the Haven.

There is no Difficulty at going into this Haven, except a funk Rock, which lies off the S. Point of the Entrance. Thefe Bays and Harbours lie fo one within another, that you need not go out the fame way you come in, but may run thro' any way with fafety: So that it is properly a Sound, not a Haven. But all thefe Harbours, however fate and convenient, are of very little ule, for want of Commerce this way, efpecially for great Ships, except driven in by Strefs of Weather.
S.S E. from Achil-bead is an Illand called Eni htirk, diftant 5 Ls. which lies right againft Alarys Bay, and N.N.W. from that the Ifland Ennisbotiom: There is a good Harbour on cither of them.

Due S. from Acbil-bead is a Point called Acbarifton, diftunt 8 L.s. and S E. from thence is the well known Cape called Slynehead, diftant 8 Ls. more. Berween the Slyne and $A c h i l$ is a high Hill thap'd like a Sugar-loaf; 'tis called St. Patrick's-Hill, feen a great way off at Sca. All the Coaft here is full of good Roads, Bays and Harbours, but unfrequented, and therefore unknown.

Before the Bay of Galloway lie three Iflands, called the 1 lles of Arran, ftretching almoft 7 Ls. in length, from the W. fide of the Bay N.W. by W. From the Slyne-bead to thofe

Convit lics the cceding large, a Entrance narrow Miles broad, eve current, 5 Fa W Fa. in the middle a Harbour.

From Naffdo, K'ronkara; 'tis nother life calle Farther in lics $C 0$ of the N . Shore, all within the d Conichin you ha the Bay 7 to 9 F Rocs 1 lland and fair way; but y rocky on both ?

From hence Gallway Bay; funk Rocks and till you come to

If you come $f$ beft Courfe is thr to the Southwa called Batticlas Loups-head is c the Entrance in Bat in your way from the Iflands more out to Sca, clear.

They that go yet are bound to of Arran; then Wefterly, dift. I dift. 13 Ls.

The moft We is the Head of th is S.W. by W. di Cape Sbannon, into the River $S$ being the breadtl W. Herc you: as far as Limeri

A little from $t$ nor in the middl ing in, and runs Bay is Likem Smirwick Have N.N.E. thi Coaf wick Haven is a

At Convit lics the famous Batterby Bay, which is, tho exceeding large, a meer Harbour Landlockt on every fide; the Entrance narrow like a Haven, but within 4 Miles long and 2 Miles broad, every where fafe, good Ground, deep Water, flill current, 5 Fa. Warer clofe to the Shore on both fides, 10 to 12 Fa. in the middle. Great pity there is not more ufe for fo fine a Harbour.

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From bence you may ftill fail up the $N$. Shore, I mean in Gallway Bay; but keep ar leaft half a L. off, for'tis all full of funk Rocks and unfeen Dangers for above a Mile from the Land, till you come to the Black Rocks mention'd above.

If you come from the Southward, and would go to Galliwy, beft Courfe is thro' the S. Paffage. If you pafs thro' the fame way to the Southward from Galliay, your Courfe is from a Point called Battiela S.S.W. to the Loups-bead, diftant in L. The Loups-bead is called allo Cape Leaze, and is the N. Point of the Entrance into the River Sbannon, or Limerick Wator: Bat in your way take heed to avord the Shoals which fhoot out from the Iflands of Enniskerry; to do which you muft keep more out to Sca, at leaft a Point and half, which will carry you clcar.

They that go out of Gallicay Bay by the N. Paffige, and yet are bound to the Southward, mult go about the Great ine of Arran; then the Courfe to the Lcups-bead is due S. halt Wefterly, dift. 14 L. if thro' St. Gregory's Paffage, 'ris S.S.W. dift. ${ }_{13}$ Ls.

The moft Wefterly Land of the whole Kingdoni of irelaed is the Head of the Iflands called the Blafgues; and the Courfe is S.W. by W. diftant: 12 Ls. Between them is Cape Kerry, or Cape Sbannon, being the Southermoft Point of the Entrance into the River Sbannon, which is diftant from Loups-leadi $2 \frac{1}{3}$ being the breadth of the Mouth of Shannort, the Courfe S. by W. Here you always find Pilots to carry you up the Siainition as far as Limerick, for to far theRiver is navigable.

A little from this Point S. is Trally Bay, with the Ine of $F \cdot i$ nor in the middle of it: 'Tis a large Bay, 2 Ls. wide at the going in, and runs up 3 Ls. into the Land. And W. from Trilly Bay is Likem Bay, or the Iflands of Hogs : and 3 Ls. W. is Smirwick Haven, diftant from the Shannois 7 Ls the Courfe N.N.E. thi Coaft cican and good Ground all the way. Smir. wick Haven is a very fecure Port, nor is thete any Danger go.
ing in or out. Off of this Haven lie the Thrce Siffers, which are three limall Mlands lying at the Entrance of the Sound called the Blafques, ralled to from the Iflands mention'd before; they arc 4 in number, bcing fmall in compafs, and are no more than high Rocks like Hills in the Sea. There are alfo fome leffer Rocks every way round them; they lic W.S.W. from Simirwick Haren, diftant near 4 Ls. The Sound or Paffage bereveen thefe Rocks and the Main lies $N$. and $S$. is near a Mile broad, and has 10 Fa. in the Fair Way.

A Ship bound to the Northward, and wanting a Winci, may come to anchor before the Sound on the S. fide, without danger of being cmbay'd, or driven on a Lee Shore: for if the Wind finifts Eafterly, he may go thro' the Sound, or go off to Sea, and ride under the Blafgues; if it faifts Wefterly or Southcrly, 'tis fair for the Sound, and they go on their Voyage. The Tide in the South runs very tharp as well upon the Ebb as the Flood.

Southward of the Rlafyuts, diftant 8 Ls. lic the Shellocks; thele are 3 very great Rocks, the Eaftermoft but 1 L. from the Main, the Weftermoft fomething above 3 Ls. They fhow at a diftence like Ships under Sail. Between thele lies ${ }^{\circ}$ Dingle Bay, diftant from the Sbellocks 9 Ls. it is a known Road, and much ufed; for now you come into a part of the Country more frequented, and full of Trade.

In the Entrance into Dingle there lics a fmall Rock off the W. Point called the Coẅ but you may fee it above Water, except at the top of a high Spring Tide, and then 'tis but jutt cover'd fmooth: 'tis decp Water cvery where round it. The going into the Bay lics N.W. and S.E. About a great L. W. of this Bay lies another lefs than Tingle, but fafe and good every where, called l'entry; and due S. from the Ventry, over the Nouth of the great Inlet to Caftlemain Bay, lics another Bay called Begens: ' 'ris oppofite to the E.cnd of the Ifland called $V^{\prime}$ aloutla; it gocs in E.S.E. lies N.E. frem the Sbellocks, and S. by E. from the Sound of the Bla/ques. The E. Point of this Bay is foul a good way off, but the W. Point is clean and fafe : AIto there is a funk Rock on the fide of the Illand, but you have room enough to avoid it. When you are come within the Bay, so away E. by N. You will know the Road by a high red Cliff oppofite to it.

The next Head Land from the Shellucks is Cape Dorfes; rhey lie from one another N.W. and S.E. diftant 6 Ls.between them lies the River of Kilmore, which opens into the Sca at a very wide Entrance called Kilmore Sound, and gocs in N.E. Four Inands crols the Sound, asthe Arrans do at Callüay Bay, only they range the Entrance of the Sound S.W. by W. inctining to the N. Shore. Here are abundance of Crecks and Coves, which make all good Havens for Shipping, fo that no Ship can want a Harbour to run into for thelter, let the Winds blow where they will. Entring Kilmore Sound, the Wenis, one of the fimall Mands, lies on the Larboard fide. From thence 10 Cods-leat, the fecond Point on the Eaftern Shore, there is no lefs than 40 to 45 Fa . Water. Beyond the Point diltant
into the but it is run up the Mot ter : bu Higher Ol. Cal the Eait

The which Water. of Roc Shore 0 but as all clear may rur wich gr clear o Illand is + Ls. but bet Sound, l'hidd round, beft wa to the 1 Musket but app

Beyo fide of the Iflat Fa. mor ther off difficult bcy or there i plafe. Road, W.N Longer Whidd by it o rous, al on the all the

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## Sailing oin the Coafts of Ireland.

into the Bay. There is Water enough in citioer of the Rivers; but it is to goodanchoring every where elfe, that tis needlets to rum up to tar. There are only tome few Rocks juft againt the Mouths of the two Rivers, which are cover'd at high Water: but you may fail on which fide of them you pleafe. Higher up the Bay ftands another old Caltle, and 'ris called Ohil Caftle'; tailing by which, you come out into Bantry to the Ealtward.

The Ifland of Beer-baven has a large Sound on the N. fide, Which is broad and deep, with clean Ground in 10 to 13 Fa . Water. At the E. end of it is a Sharp Point, where lies a Ledge of Rocks, fome of which are funk at low Water; but the Shore of the Main is good. In the Paffage lie two large Rocks; but as they are very high and above Water, and the Ground all clear about them, there is no danger but what is feen: you may run in and out on any fide of them, or between them, with great Safety. The Entrance into Bantry is an open Sea, clear of all danger, and very decp. Over againft it lies the Illand of IWhiddy: from Beer-haven to the N.E. Point of it is + Ls. E.N.E. In the Fair Way is from 30 to 40 Fa . Water; but betwixt Eeer-baven and the Main, which is called the $N$. Sound, is no more than 5 to 10 Fa . farther towards the I'biddy thereis 20 to ${ }_{25} \mathrm{Fa}$. i/'hidi'y is but a little Illand, $\mathbf{I} \mathbf{L}$. round, or thereabout: you may lail any way romed it, but the heft way is to the N. or Eaftward, where you mutt keep clofe to the Point, becaute of a little Ledge of Rocks which lie Musket-ly ut from the Shore; they are cover'd at high Water, but appear at half Ebb.

Beyond that Point lic 2 fmall Inands: you may go on any fide of the bigget, till you come to a large white Houle by the Inland $/ W$ biddy; againft the Houfe you may ride in 4 to 6 Fa. more or lets, as you pleale to lie nearer the Shore, or farther off: But all the W. and S. fides of the $I / b i d d y$ are foul and difficult. The ufual Place to ride in is right againft an old Abbey or Friery, oppofite to the $S$. fide of the W'biddy, where there is very good Ground 4 to 6 Fa . more or lets, as you plate. There is a little low Illand to the northward of the Road, which at high Water the Tide divides into two.
W.N.W. from the E. Point of Whiddy, diftant 1 L. lies the Longerf Haven. In the fair way to it fiom the E. Point of Whiddy, lies a great Rock high above Water; youmay lail by it on the off fide with fafety; but the other is dangerous, and the Haven goes in N.N.W. There is foul Ground on the E. fide, which lies dry at low iVater; fhun that, and all the reft is clear and good.

From Mizen-bead the next Head is Cape Clear, difant 5 Is called fo, lay tome, becaute when you are paft it you are clear of this Thirong of Heads and Bays, Illands and Rivers, which are fo huddled together berween the $S / 3$ annton and the Cape, that they are perplexing; and if there were hut onc 1 oth part as many, the Navigation might be as good. In the middle between thofe two Capes lies Crook Have'll, another very good Retreat for Ships in Diftrels: To go
roomenough turavod it. When you are come within the Bay,
Road, wh W.N.W oppofite to it.

The next Head Land from the Shellocks is Cape Dorfes; rbey lie from one another N.W. ad S.E. diftant 6 Ls.between them lies the River of Kilmore, wnich opens into the Sea at a very wide Entrance called Kilmore Somed, and goes in N.E. Four Inlands crols the Sound, asthe Arrans do at Galluiay Bay, only they range the Entrance of the Sound S.W. by W. inclining to the N. Shore. Here are abundance of Crecks ant Coves, which make all good Havens for Shipping, fo that no Ship cain want a Harbour to run into for thelter, let the Winds blow where they will. Entring Kilmore Sound, the Wenis, one of the fmall llands, lies on the Larboard fide. From thence to Cods-head, the fecond Point on the Ealtern Shore, there is no lefs than 40 to 45 Fa. Water. Beyond the Point diftant 2 Ls. is Killaruith Bay; and immediately about the E. Point of Killarit/h anorher called Killmelog: and on the N. Shore, N.N.W. from Killarulh, is the 'Donkerney, all fine noble Roads for Ships of the greatelt Burden or Value. Likewife between the S. Point of Kilmore Sound and Cape Dorges is anorher deep Bay: and in a word, every Head of Land, and every Inlet of Water hereabout, is placed as if appointed for the Secutity of Sailors, and the Bencfit of Commerce and Navigation.

Gape Do: ees is the Head-land of an Inland lying a fmall diftance from the Mam; and Ships may ride within it, and pafs rheo' as occafion ferves; only give the Main a finall Birth, becaufe the Land is foul on that fide: But there is room enough on the other inde, and a fafe Road. There are feveral great Rocks, which appear without the Cape, but they lie far enough alunder: So that you may fail between them, and all is late and clear in the Paflages any where.
S.E. from Cape Dorfes, diftant 6 Ls. lies Miffen-bead, or Mizu-boad; and here gocs in a great Opening, which, is cal-
 had room to engage here in King W'illian's War. There are abundance of Roads, Bays and Havens, needlefs to deleribe. On the S. of thofe Waters, about i L. N from Mizen-bead, is a Point called Three Caftles, becaufe of three old Towers which fland upon it; and N.E. from the Point is another called Suepe's-bead. Thefe two Points make 'Dunman's Bay, a good Retreat for Ships in Diftrels, becaule caly to enter, and very fafe when enter'd, otherwife not much ufed, no Town of Trade being thercabout.

About 1 L. from thence N.W. by W is Beer-baven; the Entrance is about Musket-1hot over, and goes in between the Mainand an Ifland lying off the E. Point : The Illand is called Beer-biteen Illand, and is about 2 Ls. long. The Entry of the Haven is clear; keep Mid-Channel, and youhave 6 to 8 Fa. in the Fair way. There is an old demolith'd Cattle on the Larboard fide, and beyond that two little Rivers cmpty themfelves

Road, which at high Water the Tide divides into two.
W.N.W. from the E. Point of W/biddy, diftant i L. lies the Longerf Haven. In the fair way to it fiom the E. Point of Whiddy, lics a great Rock high above Water; you may lail by it on the off fide with latety ; bur the other is dangerous, and the Haven gocs in N.N.W. There is foul Groumd on the E.fide, which lies dry at low Water ; fhun that, and all the reft is clear and good.

From Mizen-Head the next Head is Cape Clear, diftant 5 Is called fo, lay fome, becaute when you are paft it you are clear of this Throng of Heads and Bays, Illands and Rivers, which are fo huddled rogether between the Sbannon and the Cape, that they are perplexing ; and if there were but one 1 oth part as many, the Navigation might be as good. In the middle between thole two Capes lies Crook Ha. vell, another very good Retreat fo: Ships in Diftrefs: To go in here from the caltward, you muft run in by Cape Clear, going fo far about it to the Northward, till you can lec thro' into the Sea as thro' a Hole; then fteer W.N.W. keeping the Hole open to the N. of the Cape, then you will fall right with Crook H.even. The Entrance lies W.S.W. there is a little $I r i / h$ Village : before which lies the Road, having $2 \frac{1}{2}$ to 3 Fa . They have joiled the Road, by heaving out the Ballaft when Ships come to load there; fo that in time they will be obliged to ride farther off.

Between Cape Clear and the Main lies the Illand Enibherkin, N. by E. from the Cape ; and 2 Ls. W. by S. from the Cape lies a great Rock in the Sea, very high and fterp, ftanding by it felf; 'tis called Fafteny or Faftome': and N. from the Rock dift. 4 Ls. is Shole-baven. To the Eaftward of Eni/berkem lies Baltimore Haven, well known to Sailors, and much frequented, being a very fpacious Harbour, clean Ground, deep Water, and fecurd from all Winds: The Entrance is narrow, but fafe. The ulual Road when youare in is on the Welt fide, juft by an old Friery ; there you have 5 to 6 Fa . and in the Mid Channel 6 to 7 Fa . upon the Point to the Northward of the Friery ftands the Caflle. There is not the leaft danger in this Bay, except of a funk Rock in the Entrance, neareft to the Eaft fide, and another in the middle of the Harbour, which is feen at low Water. There is another funk Rock without the Haven, fix or leven Ships length from the Shore a little to the Ealtward, but'tis out of the Fair Way.

There is a way to fail thro' to the Northward of Enifherkin, and betwixt it and the Ifland called Spazi, to come out again by Cape Clear: But'tis very difficult, and nor to be done by great Ships, for there is not above 2 Fath. Water at half Flood. So again, there are feveral other Paflu; es between the llland; but you had need be very well acquainted, if you venture.

On the E. fide of the Entrance into Baltimore IIaven lies a Ledge of Rocks, running from the E. Point about a Cable's length off; and at low Water they are dry. There is good tiding

## Directions for Sailing on the Coaf

ding by tie fort in ; Fa. On the W. fide the Harbour 'ris ftony, a black Point, as the Sailors call it; and on the E. fide a Watch-houlc. The W. Shore is the tafelt.
E. fiom Rallimore, diftance I L. lic 5 or 6 high fharp Rocks, called the Staggs; they lic about a Nilc off the Shore, as you come from the E. they look like Stecples; you may fail thro' berwecu them and the Main, there is room and Water enough.

About $=$ Ls. N.E. from thofe Rocks lies Caftle Haven, you will know it by a lietle lland which lies without to the WeftWard of the Entrance, which is called The Hor $\mathcal{F}$, and another little thand to the E. fo clote to the Land, that at low Water 'tis no Ifland. To go into Caflle Haven, your run in beween thefe two Illands, keeping clofe to the Eaftermolt, :and run in with an old Chapel, which you will tec before you. When you are thware the Chapel, you will fee the Caftle which geves mame to the Haven; on the W. fide, and over againft it you may ride in so to 12 Fa. Water.

> M: B. The Haven of Rofs is on the fame Shore, a L.s. N.E. from Caflle llavely.

From Cafte ITazen to the old Headof of Kinfaie, is 9 I.s. the Courtic is E.N.E. and W.S W. And from Cape Clcar to the old head the Courfe is N.E by E. and E.N.E. diftance $1 ;$ l.cagucs.

Nidway from Cafte IHeven to the Old ILead is the Harch of Clandore: To go in, run clote aboard a high Point, called Kedenetedo in the Mri/h Dialect ; bur take care of a Ledje of Rocks which lic off from the Weft fide of the high Point, and come about almoft to the Eaft fide. When you are in, you will fee a Caftle there allo: Ride off of the Caftle in 5 to 7 Fathom ; it is good Ground, and Water cuough.

The rold Head, called by the Spaniards Cape de Vejo, runs far out into the Sea; the Point is very high and flecp, at a dutance it fhews like an Ifland, upon the top of it ftands a Light-houfe; you may ride very lafe under the Lee of it on ctither fide, as the Wind directs; there is whar depth of Water you pleafe. The Head rumning out fo far makes a Bay on the E. fide; beyond which, and N from the Head, gocs in the Entrance of the Harbour of Killfile, being the Mouth of the River Bandon: The Entrance is due $\mathbf{N}$. and there is 16 to 17 1a. Water in the fair way, and farther out 25 Fa. The Mouth of the Harbour is not above half a Mile wide E. and W. The E. Point is called 'Prob cin, theW. Point Sady Cowe Point : The laft is foul and rocky ; and off of the Probain Point lic teveral fmall Rocks called the Bullinan, which have alio foul Ground on both fides: But betwixt the Bullinan and the Prebain ' Y'oint the Paffage is very good, the Shore ou the Point perfectly clean, and in the fair way 4 Fa.

To rua in between thefe Points ftecr N.N.E. half a Mile, and then N. a quarter of a Mile more; and you come to the Bar, where by this Courfe you will have $3^{\frac{1}{2}}$ to $4 \frac{1}{\frac{1}{2}} \mathbf{F a}$. Water. This Bar crofles the Harbour a little above the Point on the W. Shore, called Moncy 'Point ; and there you take a Pilot to
the Mountain right in: Wh N.N.E. to $C$ o, Waterford.
N.B. the S tcr, certai in cle:

Watel ford from Cartur where this Sis betwen lies veral times ther ; but by Towers upon

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## g3 on the Coafts of Ireland.

' 'tis the Mountain to lear N.N.W. from you, and it will carry you right in: When you have it $N$. 'twill lead you to roughall, and N.N.E. to Cork allo: if you have it N.W. it will lead you to IVaterford.
N. B. On all this S. Coaft of Irclund. 9 to 10 I.s. from the Shore, lics a Bank of Sand, on whici is 40 Fa. Wa. ter, where the Fithermen lie to catch Cod; and it is a certain Mark by which to find the difance of the Land


Wate ford is the laft Port upon this Coaft; 'tis due Weft from Carnaroor, which is the S.W. Pons of Ledind, and where this Survey of the Shores of Ivelud begins. The Coalt betweca lics E.N.E. and W.S.W. being full of Mountains teveral times doubling. and feveral Story bigh one above another; but by the Shore 'ris all how Land, with feveral flat Towers upon it, for Sca-marks and for sailors Directions.

There thands one of thofe hat Towers na the E. Foiat of "'atcreford Haven, hi hacr than any of the reft, and to ba known becaute 'tis white The W. Poinc of the Haven is called Cre-dath-bead; 'ris a foul Point, and there lies a Shoal off into the Sea S.S.E. from it but the fair way is broad chough and clear, having to to is Fa. Water, 7 Fa. in the hiaven's shouth, and 4 to 6 ta a good way in ; the Entrance is $N$ and $N$ by $W$.

There is a aftep P'oint within the Rivers Mouth on the Weft Shore, and there begins a long Shonl reiching Northward as far as a Village called Pufluye' , and the Tail of the Sad aiferwards thonls over towards the E. Shore. Betwecn Paffage and the fleep Point there is a good Road for Ships of Burden. To go to the V'illage, you mult go on with the Caftle, kceping it on board the E. Shore ; alter whith you will have 8 to 10 Fa. but if you venture of the Shore, youmay run on ano:her shoal which lies from the Block-houfe at Pafface. The Shoal is dry at low Water, and upon the dry Part is a Ecacon at a diftance; fo you mult give it a good Birch, for which there is roome. nough in the Channel. The W Shore is thoaly and foul; but on the other fide there is a good Road, over againft a large Houle, and what depth you pleale from 4 to 12 Fa.
$N . B$. Off of $H$ aterford it flows a W. by S. Monn, the firt half Ebb running I. and the lat halt Ebb Weatward, tho the laft runs very fortly.

In going up to Witerfurd there is a littie Shail, that lies of againit the Caftle which is on the E. fide; it Rrathes in part thware the Channel, floaping downwards: It thas bat 12 Foot Water ar high Water ; you mult keep your Lead going to find it.

Above $P$ affoge about half a League the Stream is divided, that is to lay, two Rivers meet the: ; which tho timet when they are feparate, make a very handiom Chand when joined, ruming togerher, and carrying large Vcifls. Thede Rivers run thro the City of $W^{2}$ aterifora.

About half way between // itcifird Hazen and the Point
you pleale. ithe Head ruming out to far makes a Bay on the E. fide; beyond which, and N. from the Head, gocs in the Entrance of the Harbour of Killfale, being the Mouth of the River Bandon: The Entrance is due $\mathbf{N}$. and there is 16 to 17 1a. Water in the fair way, and farther out 25 Fa. The Mouth of the Harbour is not above half a Mile wide E. and W. The E.Point is called Prebs in, theW. Point Sandy Cowe Point : The lalt is foul and rocky ; and off of the Prebain Point lic icveral finall Rocks called the Bullman, which have allo foul Ground on both fides: But betwixt the Bullinan and the Prebain l'oint the Paflige is very good, the Shore on the Point perfectly clean, and in the fair way 4 Fa.

To rum in between thefe Points iteer N.N.E. half a Mile, and then N . a quarter of a Mile more; and you come to the Bar, where by this Courfe you will have 3 官 to $4 \div$ Fa. Water. This Bar crolles the Harbour a little above the Point on the W. Shore, called Monery 'P'oint ; and there you take a Pilot to carry you in.
N.E. by E. from the E. Point of Kinffale Harbour, is the Entrance into the Harbour of Cork; the Shore between is good, no danger that needs any other Warning than the Eyc. Two high Hummocks thew themfelves upon the Land Weftward; thefe are very remarkable, and by them you may a!ways know the Conft : when you are a thwart the Eaftermoft of the ewo, youdilenver the Mouth of Cork Harbour.

The Entrance is fair and very life, and full 2 Miles broad, with 10 F.. Water in the Paffige : afterwards it thoals to 5 Pa and to gradnally to $3 \frac{1}{2}$ Fa. but thofe that are unacquainted t.ake Pilotsat Staggs Head to carry them up to the City.

From the Stuggs, which is the Faftermoft Point of Cork Harbour, farther Eaft, is a Rock called Haw'k's Rock, diftant 4 Miles: Nearer by a Mile is a Tower, upon a high head of Land clofe to the Water fide, with fome thatch'd Houles near it, and another flat Tower a I.. farther E. upon the fimooth Point, on which is a long Rock covcrd with Ouze ; and from thence 'tis all low Grounds to the Point of the Haven going moto 10 metall. Therc is an 1hand upon this Coalt called Bcllcotzon, E. from Cork Harbour diftance 4 Ls. within you may nde in 4 to 6 Fa. fecure from Wefterly and Southerly Winds. Gore and rompball lie N.E. by E. and S.W. by W. diftance 6 l.cagucs. At that liland you have Pilots to carry you up to Youstoall.
i) Muyburan is 5 Ls. diftance from Yougball, the Courfe is N.E. 'tis a finall Tide Haven, and the Mouth of it dry at low Water: There is a long Point ftretches out to Scaward, before you come to ") ungarinn : there is a high black Tower called drdimore-bead itands ncar it ; which is tecn at a great diftance. There is a good Road under the Point, tecure againft a Wefterly Wind; "Jungaran is no place of importance. There is an excecding high Hill, which appears belind the Town, and is called the Mountain of Timbaysaln, 'tis a noted Sca-mark tor all this Contt, If you would go into Eunguran, bring
nougnmat on the oth Houle, an

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water on the in the of the 6 to 17 Mouth The $t$ : The ic levefo foul he Pree Point
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s broad, als to 5 juainted $y$. of Cork , diftant head of ifes near finooth nd from en going ed Bellrou may Winds. iftance 6 ou up to

Courfe is y at low d, before er called diftance. WefterThere is Win, and Sca-mark n, bring
 on the other fide there is a good Road, over againtt a large Houle, and what depth you pleale from 4 to 12 ta.

> N. B. Off of Witerford ir flows a W. by S. Monn, the firft half Ebb ruming F. and the latt half Ebb W'citward, tho the laft runs very foftly.

In going up to Wraterfort there is a lietce Shoal, that lies of againtt the Caftle which is on the E. fide; it Arerches in part thwart the Channel, floaping downwards: It has but 12 Fuot Water at high Water; you mult keep your Lead going to find it.

Above $P$ allage about half a league the Stream is divided, that is to lay, wo Risers meet the: $;$, which tho dima!! when they are feparate, make a very handom Chanel when joincd, ruming togerher, and carrying large Veflels. Thed Rivers run thro the City of Waterfora.

A oout halt way between IV aterferd Haren and the Foint Carnaroot, lic the Saltees: Thefe are two fimall Inlands, the fouthmott is the largelt; they lic half a League from the Shore, and from the Slade Poi:3t directly E. diftance 3 Ls. You may fail beeween them, but keep nearent to the fimalier of the two, which is the moft notherly, becaufe there are fome funk Rocks at the N. cud of the biggent, which at low Water are dry. From the fmalleft of the jaitees lies a Ledge of Rocks ftretching quite to the Main ; 'tis taid that formerly People walk'd over to the Inlund upon them, whereas now good Ships lail over them : The Realon of this Difference is hard to know. From thele Mands to $/$ Watcifird Havein, the Water fhoals gradually from 36 Fa. to 21 , in about 2 Miles.

To go between the Saltecs and the Main, keep neareft the Main by $\frac{1}{3}$, you have but two Fa. at low Water. There is a noted Rock call'd Kcuebeg, which lies high above Water without the fouthmoft of the Saliees, dittance $\frac{1}{2} \mathrm{~L}$. and S.W. from that, at the like diftance, and S. by $W$. from the W. end of the Saltees, lies another calld Killinore, which is under Water at high Water, and therefore dangerous, but at half Ebb 'tis feen : 'Tis ftecp too, and ${ }_{14}$ Fa. clofe by its fue, fo that you may go as near it as you pleale, provided you rua not on it when under Water. lou may go between Kevieses, and the Mand, if Neceflity require it ; but better let it alcone, becaule 'tis difficule.
S.E. from the larseft of the Saliees, and E. from the Fock Koncbeg, are feveral tiunk Rocks calld the Frails, but at low Water they aredry, and you may dial berween them: There are alfo other Rocks N.E. from the Salteer, walld the Tomins; and the northermof of the Tums is calld the Nort Reck. There is allo another Rock calid the Tomotin N.NE. Trows the bigger Saltec, and S.W. by W. from Campaizout: This Rock is above Water, and all clear withour; but about hilf a leaune S.E. from it, lies another, very dangerous, under Water, calld the Black Rock.

## Directions for Sailing on the Coaft.

There is a Road under the biggeft Saltee on the N.W. fide, and under the leaft, on the E. fide, there is 7 to 9 Fa. in cither of them : There is a Black Rock, which looks like a Boat turn'd Keel up, the Road is over-againft it ; you mult not come nearer to the Shore than 5 F..

All the way from Waterford to Carnaroot the Shore is full of Bays, all foft ouzy Ground, and lafe riding ; except one lietle foul place clofe by the Shore, to the weftward of Carmaroot '1oint.

The Sallees are fo furrounded with fink Rocks, and foul Ground, that he who comes out of W'aterford bound to the fouthward, muft take great care to go elear of them: To do this, he muft nor go more cafterly than E.S.E. till he brings rhe Saltees to the N . of him, then he may go away due N.E. for the Tuskir, or N.E. by E. to go clear of the Tuskar.

1 L.
N.N. the $L$

## s on the Coafts of Flanders, Holland, E゙c.

N.W. fide, Ea. in eirhcr ike a Boat 4 muft not

## hore is full

 except onc dot' C'il'Ha-s, and foul und to the cm : To do 11 he briugs away duc the Tuskar.

The Tuskar is a Rock in the Sea, deficib'dbefore, lying 1 L. from Grenore S.E. by E. and $4:$ Ls. from the Satici's N.N.E. $2 \div$ L.s. from the Block Rock E.N.E. and 40 L.s. from the Latud's-end of E'ugland N. by W.

About 10 Leagues S.E. from it there are two Mlands in the open Sea clofe together; they are both cover'd at high Water, clipecially on Spring-Tides, one to the N. call'd Scakam, the other to the S. call'd Kamey; others call them the Smalls: And there are two Shoals by them; one N N W. from them. and the other S.S.E. they are diftance from Gratbolme 4 Ls. and mid-way between them lics a Ledge of Rocks, dry at low Water; 'tis very dangerous to venture thro' between them, elpecially in a Calm, becaule the Tide runs ftrong thro'.

## affs of Flanders, Holland and Germany,

 Texel, the Limbs, the Wefer, the Elbe, and on to theE. and S.W. landers, or uys, diftance rys are conDunkirk is crib'd in our id begin the c.
us Flats and ; and within and hills and s , and other he Mariners fic Chanucls, ic Coaft, bec and fate.
J.E. diftance m, but withloifter call'd
ceple with a trle to the E . ic farther to-
\&.E. caftcrly,

A League from Blankenburg E. is Heiff, a high Spire; and between them Lieffog within the Land, being a liguare Stecple : To the eaftward of the Heift is Knock, a Spire Stecple : To the E. of Knock up the Land is $W e / t$ Clbapel, a low Tower with a fhort Spire upon it: To the E. of that, is St. Anhe, a fquare Stecple; and to the E. of St. Anne is Shyy. N.B. All thole Marks are neceffary to be taken notice of, as they are made ufe of for the Knowledge of the Coant, and of the Flcmifh Banks, which are perhaps the moft remarkable of the kind; nor is there any Coaft like it in the known World, as you will tee by the following Detcription, which I thall give as bricfly as poffible, but they muft not be omitted.

## An Account of the Sands call'd the Flemifh Banks, as they lie extended bet ween Dunkirk and the Cbanncl of Oftend.

On the Coaft of Walcberen, N.W. from Offend, and W. from W'eft Cbapel, about 9 Ls. off from the Flemi/b Coaft, lics a litele Bank or Flat, which yet has 3 Fa . apon it at low Water: In foul Weather there is a grear Breach of the Sea upon it. About ${ }_{5}$ Ls. off from Oftend lies another Sand callid the Trick, where there is about is to 16 Foot Water. Bring St. Katberiune's Steeple right agaiuft Oftend, then you come on againft this Sand. Between that and Offeld is another Shoal, on which you have 3 Fa. but thefe they do not properly cttecm to lic among the Flemi/b Banks.

Shoals, and der Chamets between trocestoans antomatin them are very difficult, fo the Land is full of Sand hills and Hummocks. with abundance of Towers and Spires, and other remarkable Buildings on the Shore, which ferve the Mariners for Sca-marks and Direction in their paffing thole Chamels, and thunning thole dangerous Shoals: So that the Coaft, being alfo perfectly furvey"d, is now very practicable and late.

From 'i) unkirk to Newport the Courle is N.E. diftance $4^{\circ}$ Ls. There are two fimall Places betwecn them, bur without any Haven : (1.) South Cotton, and (2.) a Cloifter call'd


Newort is known at Sca by a high fquare Stceple with a fmall Spire on it, with another fquare Tower a little to the E. of it, call'd Oinr Lady of Lombardy; allo a League farcher toward ofiend, another calld Medlekirk.

From Newertor to Offend the Courfe is ftill N.E. cafterly, diftince $2 \div \mathrm{Ls}$. Halfa L. to the Weft, S. of Oflod, is an old Work, Ieft after the famons Siege of the Town by Albert Archduke of Atuftria, and call'd Abert's Sconce.

Newert, or Nicuport, is a fimall Tide-Haven, dry at low Water, and not cupable to reccive any Veffels that draw above I Soot Watc: : N.B. They are juft now going to decpen the Entrance by removing the Bar, and making a Balon within for great Ships: If they bring it to Pertection, a new Survey of it muft be taken.

Right thwart the Haven lics a Bank E. and W. which is dry a: half Tide, and has but $\&$ Foot at high Water: The Channel within is good; the Entrance lies on the W. end of the Bank. Pilots come off at the ufual Signal to carry Ships in, fo it needs no Detciprion. The Bank is fteep on the N. fide, fo that you munt not come within; Fa. of it.

Betwecn Dunkerk and Newport there is a fair Channel, and all good Ground clofe by the Shore, within all the Banks, is Foot at low Water; and the nearer the Shore the decper the Water, except juft off of Ten Duyn, there you mult keep a little farther from the Shore, but not much.

At Oftend likewife you take a Pilot to carry you in, the Channels being wi uncertain, and the Sands often thifting: But the Road is goud and very lafe to lic in, till the Pilotscome on board. At low Water here is but 6 Foot Water upon the Bar, $3 \frac{1}{2} \mathrm{Fa}$. at high Water, rather more: But the greatelt Ships ride a-floar at low Water within the Harbour. N. B. Here allo they are hard at work decpning the Entrance.

From Oftend to Sluys the Courle is N.E. by E. diftance $5 \frac{1}{2}$ L.s. not including the Entrance into the Water of Shus, which gocs in S.E. or S.E. by S. The Chanacl lics within all the Banks.

Two I cagues to the caftward of Oftend is Wenduyin, with a high Spire: Then Blankeniurgh, a \{quare Tower W. from the Spire: And within the Land, juft over Blankenburgh, you tec the great Church of Bruges, with two Spires upon it: Allo a little to the weftward itands 'fobn'David's Stecple.
ant ITTIM md hills and $s$, and othes he Mariners ic Channels, coalt, becand latc.
J.E. diftance m , but with. loilter callid
ecple with a ttle to the E. e farther to-
i.E. cafterly, nd, is an old Albert Arch-
dry at low draw above g to decpen 3alon within new Survey
which is dry Che Chauncl of the Bank. , fo it needs fo that you
hannel, and the Banks, e the decper muft kecp
you in, the cn thitting : Pilotscome er upon the the greateft c Harbour. ig the En.
E. diftance er of Sluys, cs within all
duyin, with ver W. from nburgh, you cs upon it: Stecple.
you will lee by the following Defeription, which I thall give as brictly as poflible, but they mutt not be omitted.

## All Account of the Sauds call'd the Fleminh Banks, as they lie extended between Dunkirk and the Channel of Oftend.

On the Coaft of Walcheren, N.W. from Offend, and W. from W'e/t Claupel, about 9 Ls. off from the Flimilb Coalt, lics a little Bank or Flat, which yet has 3 Fa . upon it at low Water: In foul Weather there is a great Breach of the Sea upon it. About 5 Ls. off from Oflend hes another Sand call'd the Trick, where there is about 15 to 16 Foot Water. Bring St. Katherine's Steeple right againt Oftend, then you come on againft this Sand. Between that and O/lend is another Shoal, on which you have 3 Fa. but thefe they do not properly citeem to lic among the Flemi/b Banks.

But betwixt Oflend and Newport they begin, and the firft contains four Banks, all lying thwart or jult off of Oflend; the two neareft to the Land cad thwart of N'e:uport, the two outmoft run along weftward almoft to Duncire : That nearcll the Land is call'd the Geer : Betwixt that and the Land lies a Channel of 8, 9, and 10 Fa. quite thro'. The next is calld Laland, or Boomland. Betwixt thele rwo lies a Channel thro allo of 8 and 9 Fa. Water: Next to them are two Banks joining together; the caftermoft ends about mid-way betwixt Offend and Newport, and is calld the Stroom; the weltermoft reaches thwart of Dunkirk, and is call'd the Stone Bant, which has on the E. fide a Hook, which goes off to nothing almoft againft Newport. On this Bank is 3 to 4 Fa, and on the E. cnd of it 5 to 6 Fa. Alfo the fourth is in two Banks, the eaftermoft is call'd Sandele, and the wettermoft Call Bank, or Small Bank, lying along by the Broad Bank fide.

If you are bound to Dunkirk, and cannot go along the Flemifb Coalt, you mult run without all thef Banks, till you come againt Broad Bank, and then keep in along by it in 5 to 6 Fa. the Channel is is Fa. deep. When the two flat Steeples to the louthward of Neweport ftand a Handfpike's length alunder, then you are right thwart the faid four Banks, upon which at low Water there is not above ${ }_{\mathrm{I}} \mathrm{Fa}$. and at the Spring-Tide E.bbs they lie almoft dry. But betwixt all thele Banks you may ride in 9 to 12 Fa and may run over them in 4 Fa . To the wettward of them is from 8 to 10 Fa .

The Broers Bank is next, it lies thwart of a little Town call'd Broers, and the Cloifter of Ten' 'Duyn, ruming W.N.W. about a League into the Sea: When the laid Cloitter bears S. from you, then you are at the innermoft part of the Bank, and you may run thro' between this Bank and the Land, in 4 Fa . at low Water. But ulually when they fail thro' berween any of the Banks on the Coalt of Flanders, they run to the weitward of this.

To the weftward of the Broers Bank lics Cams Bank; there is 3 Fa . Water upon it, and you may run thro' within it in 8 to $\mathrm{I} \circ \mathbf{F a}$. and may ride there in all Winds by the Land:
'There

## Directions for Sailing on the Coafts of Flande

'1 hete is allo s Fa. betwixt this and the Broers Bank. In pultin;; thro' between this Cams Bank and the Main, you come along by the (v) tade Bank, till you come right before the liabour of Durkirik; and when you come to the weftward of Prukerk, abour S.W. of the Splinter, you run over a Shoul of = Fa. call'd W'illeaert Sand; but as foon as you are orcr, you have 10 to 12 Fa. You are thwart of this Bank, when you bring Borbucls Steple into the Valley of the Sandlitl. By thelc Marks you may fail thro' the Banks N.N.W. moto the Sca, and come againft the Tail of the Broad Bank in of Fa. then you munt edge again a little towards the Land in 12 to 15 Fa. and then lail thro' between the Rroad and the simall Bank E.N.E. and E. by N. till you are paft the Cloiltor Ten 'Duyn and the Brocr Bank.

To the eaftward paft this Bank, you come into fhoai. Water again, right-againft Newport; but being paft Newport, you nay kecp clote to the Land in 8 or 9 Fa . and fo you will run thro' betwixt the Land and the Geer towards Offend: When You come againgt Oftezid, you are clear of all the Banks, and may run away into the Sca, to pats into the Weilizgs.

But there are 隹l five long Banks bearing North Eaftward on the Fleme/h Coaft: When ciraucling bears S.E. from you, then yot: are thwart the S. end of them ; when Newport bears S.E. you are thwart the $N$. end of them. They are very long, and have a wide Chanel betwixt each of them, with from 8 to 20 Fi. Water.

The outcrmoft of thefe Banks lics from Calais Cliff N.N.E. about 6 Ls. and a half, and is call'd the Cliff; having $3 \frac{1}{2}$ Fa but betwixt that and the next lies a fair broad Channul, with 20 to 24 Fa. Water.

The lecond is call'd the Ruyting, lying from Calais Cliff N. E. by N. about, Ls. and has about 5 to 6 Fa. but upon the S. cace of it 'tis thoal to i i Fa. When the S. end of Berg St. If lianox comes betwixt two flat Stecples to the weftward of 'Dunkirl, then you are thwart this Shoal.

There are three Windmills to the eaftward of Tunkirk. When the outmoft Mill comes over the E. end of the Town, it is the beft Mark for this Shoal, and then the Stecple of Onthirk will bear S.E. Five Leagues diftance betwixt this and the third Bank lies a Channel at $I_{2}$ to $1_{3}$ Fa. Water.

The third Bank is call'd the Tike, it lies N.E. from Calais Cliff, and has a to s Fa. Water. Upon both Ends of this Bank arc Shoals; the fouthermof has but $I_{\text {Fa }}$ and lies alfo upon the Marks of W'innowberg N.W. wefterly from Dunkirk, and is call'd 'T)ike-Polder.

The northermoit Shoal has about 4 Fa. 2 Foot Water, and Sics N.W. irom the Cloifter T'n ${ }^{\text {Th }}$ nyn. Thefe Banks are very dangerons, for that call'd the Ruyting lics almolt in the Fair way, and at low Water has not above 2 Fa.

The fourth is NE.by E. and Shoal, with but of Spring-Tides goes allo a Chan

To the caftw Broad or Brce

In all thefe C turn iafely to wi and anchor alfo

The $S$. end ot Cliff, diflance a is a Shoal with Water. The N ward, till $N e w p$ bears E.S.E. ${ }^{\circ}$ o

All along the South Moon ma

In the Fair w Weft Moon.

Betwixt Calat
Along the $F l$ the Banks towa afterwards along ward along the

When the FI half Flood by th may go into any

Berween Cala Ebb S.W. by S. $T h$
In the Fair w: of Calais and the Flemi/h Ban win 26 to $; 0 \mathrm{Fa}$ when you are not two Gun-the

When you is S.W. and S.W.b have by your 1 towards the Fie 18 Fa . When afterwards S.W.
Calais and Dova
If you can fro 16 Fa . Water, yc Banks.

Calais Cliff a

## afts of Flanders and Zealand.

The fourth is call'd Rattle Bank, and lies from Calais Ciiff NE. by E. and has from 3 to 6 Fa . Upon the S. end is a Shoal, with but one Fa. at low Water; and at the Ebb of Spring-Tides thofe Shoals lie dry. Without this there goes allo a Channel 19 to 20 Fa. deep.

To the caftward of the Rattle Bank, betwixt it and the Broad or Brce Bank, is allo a Channel 18 to 19 Fa. deep.

In all thefe Chamels betwixt the Sand Banks, you may turn lafcly to windivard from one Bank to another every where, and anchor allo between the Banks where you will.

The S. end of the Broad Bank lies N.E. by E. from Calais Cliff, diflance about 4 or 5 Leagues. And at the faid S. end is a Shoal with $1:$ Fa. but the relt of the Bank holds 3 to 4 Fa, Water. The N. end has 6 to 8 Fa, and ftretches to the northward, till Newiport bears E. by S. or till the Cloifter Ten Duyn bears E.S.E. 5 or 6 Ls. off. The Setting of the Tides.
All along the Flemifl Coaft near the Land, a North and South Moon make a full Sca.

In the Fair way, and without the Flemi/b, Banks, a SouthWeft Moon.

Betwixt Calais and Dover a S. W. Moon.
Along the Flemi/h Banks, the fint of the Flood fets over the Banks towards the Main during one third of the Tide; afterwardsalong Shore : and the after Flood fers to the north. ward along the Sea.

When the Flood begins to go thwart off to Sca, then 'tis half Flood by the Shore; and then, or a very littleafter, you may go into any of the Harbours on the Flemifh Coaft.

Berween Calais and Dover the Flood fets in N.E. by E. the Ebb S.W. by S.

The Depth of the feveral Channels.
In the Fair way betwixt the Marfdecp and the Head-land of Calais and Dover, is 23 to $2_{4}$ Fa. deep, a little without the Flemi/h Banks, IS, 19, and 20 Fa. but nearcr the Gooodwin 26 to ;o Fa. the ncarer the Goodiviz the deeper: And when you are thwart the Goodwin in 28 to 29 Fa. you are not two Gun-fhot fromit.

When you fail from the Marideep towards Calais, Ateer S.W. and S.W. by S. obferving the Tides: And when you have by your Reckoning run 4 tc 6 Ls. then edge over towards the Fiemifh Banks, till you come into 20, 19 , to 18 Fa. When you are in the Depth, then fteer S.W. and afterwards S.W. by $\$$. and you will be Mid.Chanac! beeween Calais and Dover.

If you can from the Poop fee the Flemifh Coalt, and are in 16 Fa . Water, you are then within the Point of the Flemi/h Banks.

Calais Cliff and the South Forcland may be feen in 24 Fa .

The third Bank is call'd the Dike, it lies N.E. from Calais Cliff; and has 4 to 5 Fa. Watcr. Upon both Ends of this Bank are Shoals: the fouthermof has but i Fa. and lies allo upon the Marks of Winnowberg N.W. wefterly from Dunkirk, and is call'd Dike-Polder.

The northernoft Shoal has about 4 Fa. 2 Foot Water, and lies N.W. frem the Cloifter Ten $\mathcal{D} \not t y n$. Thefe Banks are very dangerous, for that call'd the Ruyting lies almolt in the Fair way, and at low Water has not above 2 Fa.
not two Gun
When you S.W. and S.W bave by you towards the 18 Fa . Whe afterwards S.
Calais and D
If you can 16 Fa . Water, Banks.

Calais Clif

## Sailing Directions for the Coaft of Flanders and Zeal with the Sands upon the fai



HERE are divers large and deep Channels between the Illand of Walcheren, which is the weftermoft of the Illands of Zealand, and the Flemifh Coaft; in which Channels you may fail fafely with Ships of the greateft Burden. Thete are as follows, viz. the Heiling, the Spleei, the Doorlog, and the Botkil; and they are all together call'd the Weilings, from the Channel of the /l'cilings, which is the hergef of them.

Betwixt thefe Chanuels the are feveral Sands, or Shoals and Banks, which it is necdtul for Sailors to be well acquainted with, fuch as the Inter Bank, the Frenco Pole, the Ainfthl 'pole, the Raen, and the Rafis.

The lnner Bank is a ftecp hard Sand, lying betwixt the E. fide of the Englifh Toke and Caldiant. Being off along CadCum, bring the Caftle of Shyys on with St. Lambert (a high Square or Tower Steeple upon Cadfant, to the northward of aless) then you are paft the faid Inner Bank to the eaftward; and buag /Fc/t Chapel on with the Knock, and you are paft the W. end of it weftward.

The liziglif, Pole lies off of the W. end of the Inner Bank, betwixt Ruen and the Flemifb Coart. his Sand is fteep too: It has a Ribb running out from the ${ }^{*}$. $\because$ d of it, which is about a Gun-fhot over; and reacinng pora away $W$. beyond ollew', 'tis a hard Sand, and good faictor-ground, and is call'd the Ript. Bring Blankenberg to bear S.E. and by E. from yont, you are at the decpeft of it, and have 6 Fa at low $\mathrm{W}_{\mathrm{a}}$ ier : Farther to the eaftwad ie is fhoalce almolt to $3^{\mathrm{Fa}} \mathrm{Fa}$. On the other hand, if you go la. her weltward, it holds near the tame depth of 6 Fa . and fo on to the outer Bank thwart Offend, where about Gun-fhot to the northward of the Ript, it decpens again, but 'tis foft Comad: Alfo about Gun-fhot over the Ript to the S. and S.S.f. yo: have half a Fathom $\mathrm{m} r \mathrm{re}$ Water and foft Ground. When Heiff, which is a high spure Steeple, comes to the Light-/foufc, thwart of that is the
fhoaleft of th Bcing paft the deeper Water it is dangero In part of th Ground; and hard Ground

The Raen floc on both over : The W hard Ground that part is ca Gallows-bead where you w
N.B. The to the E a Gibbet

The Marks Channel lies Weft Cbape! of the Knoc bring the Ca Sant, then y fay, the Dry

The Rajes the Illand of the Eaftern bove $2 \frac{1}{2}$ Foc ward; being fouthward. has a iquarc arc thwart

оwi
not two Gun-dhot from it.
When you fail from the Marjdeep towards Calais, fteer S.W. and S.W. by S. oblerving the Tides: And when you have by your Reckoning run 4 to 6 Ls. then edge over towards the Fremifh Banks, till you come into 20, 19, to 18 Fa. When you are in the Depth, then fteer S.W. and afterwards S.W. by W. and you will be Mid.Channel between Calais and Dover.

If you can from the Poop fee the Flemifh Coaft, and are in 16 Fa. Water, you are then within the Point of the Flemigh Banks.

Calais Cliff and the South Foreland may be feen in ${ }_{24} \mathrm{Fa}$.

## ders and Zealand, from Oftend to Ter Veer; Is upon the faid Coaft.

 efter$m i / b$ with viz.
## hoals

 II ac. ; thehe $E$.
fhoaleft of this Bank: Farther to the eaftward it deepens again. Being paft the Mark, and edging towards the Bank, you find deeper Water, and may run over at half Flood in 3 Fa. but it is dangerous, becaule of the nearnets of the French Pole. In part of the Channel betwixt this Bank and the Raen is foft Ground; and then it begins to thoal on both fides again, with hard Ground.

The Raen lies to the northward of the Englifh Pole; it is flat on both fides, and fo broad that 'tis half an Hour's fail over: The W. end is flatteft, and has the beft Shoalings with hard Ground on both 'ides. Thwart thro' it ebbs dry, and that part is call'd the Srye Raen. Bring Sruges on with the Gallows-beads, then you are off the W. end of the Raen, where you will have ${ }_{3}$ Fa. and good Shoalings.
> $N . B$. The Gallows-beads are high Sand Hills on the Shore to the E. of the Blankenberg, where formerly there was a Gibbet or Gallows.

The Marks of this Channc! are thus: Thwart the Raen the Channel lies thre', tho with but $2 \frac{1}{2} \mathrm{Fa}$. at low Water. Bring Weft Chape! (on the Flemifh Coaft) a little to the eaftward of the Knock, then you are right with this Channel: And bring the Caftle of Sluys among the Eaft Sand-hills of Cadffant, then you will be off the E. end of the Raen, that is to fay, the Dry Raen.

The Rajes, which are the laft of thefe Shoals, lie along the ISland of Walcheren on the W. fide, and are divided into the Eaftern and Nortbern Rafes: Neither of them have above $2 \frac{1}{2}$ Foot Water at low Water, and are flat to the calt ward; being the inner fide towards the Land, as alfo to the fouthward. Bring W'efl Chapel on the Inand Walcheren, which has a fquarc Tower-Srecple, on with the Mills; then you are thwart of the Chanuel betwixt the laid two Rafes,
and which runs that way into the Sa: There you have fant. Th about 2 Fa. at low Water

The We!lings, mention'd before, lic hetween the Fiomilh Coant and the "Engtith Pole; they are divided into two Chan-
 inge, or Main Weilugs, lies between the Englith and the
 CPole and the Flemil/h Coats.

When you are ar Sed, and would go into the llitimes, you muft fand for the Ficmith Coaft, thly you come into ; ta. Watcer, efpecially if you are to the wethward of Ofteind: 1 here did fermerly lie a Bank off from the Shore, which you might full withn; but now there is nothing left of it but a little Fhat. Bris the Stecple of Pruges a Cable's lengeth to the wettward n: Lefoig, (a fquare Tower, and the lirect thercabouts) then you are to the werward of all rhe Simd Rams, and Poles upon the whole Coart, mentiend above a kecp thole Stceples to, and ran on towards the $F \%$ molbs (at, till
 Gromd, add till you come into i Fa . Water: Then go away NE and NE. be E. with the Fiood, or NF. and NE. by is. with the Fbb. Reckon your Tides carctilly, they run mothly L.S E. fomething fourherly, and W.N.W. omethus northerly; but the Tutc tearce ruas an Hour along Shore. Bring the Stecple oflidatuyn one or two Ship's length without Rlankensios fowe, and keep them there as long as you can fee them. ftill in s Fa. Water. Then bring Heif/ upon Bruges, and $/$ Geft Chedel upon fisoct, and you are in the Fair way to the FCeliugs: The nearer the Einglith Yoke, the deeper Water, cacept you are within the Shoalines of the faid Bank it felt:
 comes to Kiuch, then you are too far to Scaward, or too acar the langlith Pule ; but you may bring them all together at onec with the firt of the tlood, and then if youget shoal. ings, it is of the liugtilh 'Iole. Then hail along by the tame Courfe, between the Englifh and the Frouch $\%$ ole: The Candelif 'roie is flat thercabouts, which you will find by tometers. Whe: ynu bring the Caftle of Sinys to st. Lamteent, then youre paft the French $\%$ 'oke.

> N. $B$. St. Lambert is a high fipuare Stecple upon Cidfant, to the northward of Stuys.

Thence you may fail Eaft right with Flithing; or clle ob. feve the followimy Dirctions. Lecem muft not come within Het ${ }^{\prime \prime}$, but be kept without it. till you bring the Caftle of Shes to the Eat Sand-hill of Ciadfant; elfe you will run right agant the inner Bank: But when the Caftle of Shuys comes to ric Sand hial. then bodlly go away E.N.E. and N.E. by E. to avont the Fomblyple, thll the Stceple of Fluthing comes to the Northarat on the yonfionetate, when you will be m depth enomeh; then go away B by S. right with Fintlong.
wholly ave

If the a'eburgh, the N. fid and hard twecn the ing along F.atterly, and whic farther, g Shoals.

To hin! W.N W.ti bills, but $n$ to the Inn right out than a M ter. Ber: at the Ea quite fo hi a little H Sund in $t$ becallie th to the So faid lime may run Pole or borrow o you may dark $W \mathrm{c}$

> Note,
> $C a$
> the
> ple

To fail mull fiet fa Shoals: an hour t along by withinew nearer no Chapel ft of Shys) may go 1. St.Alnue Caftle of fail out N fes: Brt tore $S t$.

## the Coafts of Flanders and $Z$ ealand.

ou have fant. Then you may go tight with Fintiniis, and fo you will wholly avoid both the Rach and the Poles.

If the Weather be dark, io as you cannot fee Midabebargh, then you mut run in by the Lead aiong the Ript on the N. fide of it, kecping E.N.E. till you find the Shoalinge, and hard Ground of the Eingli/h aple: So you will run between the fide Pole and the Reacn. But you mult keep founding along, the hard Ground of the B.ank, and feer a little more Catterly, to thum the Rafes which lie thwart of Southond, and which are ftecp too: when you are gotten in fomewhat firther, go away L , for $l$ Fhalhing, and you will mils all the Sinoals.
 W.N W. till $h^{\prime}$ /f C Comed comes ahmoth to the Point of the Sandbills, but not withour it; or till the Stecple of Middleburg comes to the Inner Sand-bill. Then go away W.S.W. and you run reght out at the Splect. The Splett is a fair Channel, more than a Mile and halfover, and has at leaft $+\frac{1}{2}$ Fa at low Wa. ter. Between Sowland and Di/hook lies a high Sand-bill fleep at the Ealt-end, called the Yonine-bill; and another not quite fo high lics to the Eattward, bue fomewhat long, and has a little Hollow in ir. which docs as it were devide the Iong Sand in two: The South part is called the haner Sand-bili, becaule there are no more fuch high Samithills within them, or to the Southward. When Midditburg Seceple comes over the laid Imer Sand-bill, or in the faid Hollow, and keeps there, you may run out at the Splect, without any danger either from the Pole or the Raen: Nay, it the Wind is Eafterly, youmay borrow of the Eng'i/h yole. The Raen is that there, to that youmay found out aiong by it, and along the Spleet, when in dark Weather you cannot fee the Marks.

> Note, When Ardenherg comes without the Sand-bills of Cadfaint, then you are fute patt the 'Dry Rayen and all the Shoals, and may bollly fteer to any part where you pleale.

To fail out of Flu/hons at the Doorloy with deep Ships, you mutl fitfal to as to come at half Flood or at high Water to the Shoals: to this end tis bett to go off from $F \cdot$ hathing, at about an hour Flood or more, as the Winds may prefenc. Firlt go along by the Shore, then fleer W.N.W. rill IWeft Chapel come within two Ship's length to the Point of the Sand-bills, neither nearer nor farther, leit you come upon the Rath: When $W^{\prime} \rho f$ Clapel ftands fo, and St. Alme's (a that Stecple to the Weftward of Sluys) thands among the E. Sand-hills of Ciadfint, then you may go lately out of the Doorloy, lailing NW by W. When St. Anne comes to the Weftward of the laid Sand-hills, then the Caftle of Shays will be behind it ; keep it fo, and then you may lail out N.W. by W. and go clear both of the Racu and the Rafes: B't if you bring $W^{\prime}$ !t Chefel without the Sand-hulls, before St. Anter comes without them too, you will be then too
 Ein(slif) loh is flat thercabouts, which you wall find by founding. When you bring the Cafte of Stuys to St. Lanitert, then youre pall the Franch loole.
N. B. St.Lambert is a high fyuare Stecple upon Cadfant, to the northward of Shess.

Thence you may fail Eaft right with Flu/hing; or elfe obferce the following Dircetions. Lerfig mult not come within Hezk, but be kept without it. till you bring the Caftle of a/as to the Eat Sand-hull of Cadfient ; elfe you will run right a gandt the inner Bank: But when the Cafte of Stuys comes to the Sand-hill, then boidiy go away E.N.E. and N.E. by E. to avoid the frimidpole, till the Sceple of Fluthing comes to the Northand of the Profonesatt, when you will be in dopth onowh; then go away E. by S. right with Flulbug. There is no Ictis than + Fa. Water on both the Weiliugs at low Water.

The Inner Wrilimge, as above, lies thro' between the $I_{n}$. nor Rasin and Cadfunt; when youcome into the IWeiliners from the Weftward, and are come on till the If 'of Chapel comes to the Kinock, being to so into the Anuer /I eilings, then go E. by s. and you will fee the Buoy on the Doint of the Yecredmirkt: leave the Buoy on your Staboard fide, and keep St. L mobery's Sicth without the S. Saud-hulls of Cadfint, till you come near to dicur Harbour.

Note, The Pierdmarkt is a Sand that thoots off from the E. Puat of the Harbour of Silys, and is very ftcep.

Then fin on Ni. fomewhat Northerly along by the Shore, to avoin a sund called the Crake; and when the Caftic of Whrand the Stecple of It . Lanbert's come one in another, thengonay E. right with Flutheng.

There is alto another Chand which lies thro', berween the S. comms fron th Sea, and defire to fail in at the Splet, you mutt cute towand the likme Coaft; and when you are by your Recioning to the Wchward of Offend, borrow upon it bill youger hard Ground and thoaler Water, and then you may befure you are upon the Ript. Having found the Ript in 6 to s.Fa. according as you are crtice to the Eaftward or Weftward, edge off again Northward into the Sca, till you find it begin to thoal, and you have hard Giround; and ftill kecp toundiug the Ript, till you find deeper Water and hard Ground: Then run in E.N.E. cdging now and then to the Southward towards the N. of the faid Ript, till Bruges comes upon Lefwis, which is a large flat Stecple, or the Blankenberg bear S. then you are thwar the Ruen, and may run into the Spleet: Then bring the Sicup of hat haths over the Inner Sand-bills, between Sonthhand and Dowok; and with that Mark run in E.N.E. till the Cuthersen comes to the Eatward of the Silld-bills of Ciad-

To fi: mull kit Shoals: an hour along b wihth ncarer Clapel of Shys may go St.Annh Caftle o tail out fes: Bu forc $S t$ far to th St, Alu: comes t the Sou Itch Cl out the nel.

Whe nel, yo in a taking of Cad deep $W$

Herc cones S.S.E. log at t run upo Rates, , ti muilt fo Salld tot In dark all the ward of danger on the flooaleft

The ing, an fail out Cables the Lan ftecp to the Lan Fair Wa ward'ti
find by st. Lam-
a Ciidfant,
or clfe obome wishc Caftle of I rum right $s$ comes to i. by E. to izig romics will be in I Flulbong. filings at
een the $I n$ iliugs from $l$ comes to then go E . he peerdd kecp St. int, till y ou

Iff from the ftecp.
the Shore, c Caftic of in another,
crween the it you are phat, you you are by bw upon it en you may Ript in 6 to W cftward, ad it begin cp founding und: Then ard towards (wis, which cn you are m bring the veenSoutbE.E. till the ills of Ciad-

To fail out of Fithlhills at the Thorrloy with decp Ships, you mult fit lal to as to come at hatf Flood or at high Water to the Shoals: to this cnd tis beft to go off from Filufhine, at about an hour Flood or more, as the Winds may pretent. Firf go along by the Shore, then fleer W N.W. thll Ifeft Chafe! come wihin two Ship's length to the Point of the S'and-hille, neither ncarer nor farther, left you come upon the Rate: When Weft Clapel itandsfo, and St Ame's (a flat Stecple to the Weftward of Sluys) thands among the E. Sand-hills of Cadfant, then you may go lately out of the Doovior, lating NW by W. Wilien St. Alnue comes to the Weftward of the taid Sand-hills, then the Cafte of Sluys will be behind it ; keep it to, and then you may tail out N.W. by W. and go elear both of the Racn and the Rafes: But if you bring $H$ 'ft Chafel without the Sand-hille, before St. Alnle comes without them too, you will be then too far to the Northward, and too near the Re/ss; or if you bring St. Anue without the Sanci-hatls of Cad/aiz, before li eff Chapit comes to the cod of the Sand hills, then you will be too far to the Southward, and juft againft the Racu. But when you bring He/t Chapel to the Point of the Sand-litis, and St. Alune without them both together, then you are in the beft of the Channel.

When you come in from Scaward, and would find this Channel, you mult run by your Lead, till ${ }^{\prime}$ 'ft Chapel comes within a Maft length of the Scouce, and to fail in by the Raten. taking the Soundings till St. Anne comes to the tadd Sant-bill of Cadfant: then go S.E. by E. and you will foon come into deep Water.

Here you mut obferve the Tides very exactly, for the Flood comes into the " Doorlov full S as does the Aiter-Ebb afterwards S.S.E. andat lat Southivard; to that if you wonldenterthe Doorloy at the firt of the Flood, you muit go S.E. or clfe you may rum upon the Reen. Coming then from Senward along by the Rame, till St. Anat be loit among the Sand-batls of Catlyat, you mult flecr S. E. till li'eft Chafel come whinn the Pomt of the Sand bills, and then you may run boldly in with Flu/b:ns: In dark Weather youmay kece along by the Rafer, founding all the way. When you kecp the Caftle of Sluys to the Eaftward of the faid Sand-bill of Cadfint, you are then our of danger of the Raen; but when the Church of Slays flands on the Weft fide of thofe Sand-bills, then you are thinart the thoaleft part of the Kuen.

The Botkel is another Channel leading into and out of $F$ Flifting, and lics thro' between the Rafis and the Catio. To fail out from Flathing at the Bodkil, you muft mon withon wo Cables length along thore, between the Cetr, the Rifis, and the Land; you may fafely come clole to the Shore (which is ftecp too) with the biggelt Ships: The Rifes are that towards the Land. To the Eaftward or Southward of Southated in the Fair Way, you have 5 to 6 Fa, and to the Notthwardand Weftward 'tis deeper : and thwatt of Weld Ciberel 'tis 8 to o Pa.

## Directions for Sailing on the Coafts of Flan

Bring Buyens Clurch (which is to the E. of $W$ Weft Clsapel) over the Mill which is to the Weftward, and keep them in one; you may then run right out of the Botkil, between the $N$. Rafes on the Larboard, and a Sand called Caloo on the Starboard fide. In the Botkil you have $4 \frac{1}{2}$ Fa. but upon Caloo Sand not above 3 or 4 Foot.

The 2 (2uerts is a Flat lying N. of Caloo as far as Domburg : Between them is a Channel with 4 to 5 Fa. Water, called the Eaft-Gat. Whether you dail out or in, you mult bring Weft Chapel to the Northermoft Picr of Walcheren, which is eafily known; and by that you may go out or come in. Between the 6 uterns and the Land runs another Channel called the Land Deep, having 3 and $\frac{1}{2}$ Fa. Water. If you are coming in, and would find the Land Decp, you muft run into $2 \div$ Fa. thwart of Domburg; keep founding, and as near to the Shore as you pleate ; and run by the Piers or Heads of Walcherenn, till you come within. When you are come to far E. as Buyens Church, or Souteland, by any of trefe Chaunels, and have the Wind Eafterly, fo that you are oblig'd to turn up ; then you may go between the E. Rafes audthe Geer, which lics to the Eaftward of it, and fo conic our by the broad Channel into the TDoorloy and the Splect, and then about S. of the Gieer to Flufhing.

About 3 Ls. without the Land of Walcheren lies the Stone Bank, which is a long narrow Sand lying N.E. and S.W. upon the middle of which you have not above 2 Fa. but at the N.end of it there is 3 Fa . If you would hail in or out of $F l u / b i n g$ by the Botkil, or by the Channels of the Eaft-Cat, or Land Deef, you muft fail about this Stone Bank either to the Northward or Southward; and when you bring Middleburg to b over Domburg, then you are thwart it. If you would go so the Northward of it, you mult bring Middleburg halt way between Tomburs and Eaf: Chapel, and to fail towards the Land: But if you would go to the Southward of the Stone Bank, you mult bring We/t Clapel E.S.E. from you in a black Valley of the Saudololls, and to laul right in. Within this Stoue Bank is

Flu/biug by of this Stone long, and has to the Ealtwa Shore, havin: ing as aforcta

7
Before the Sca.

At Flufhin
At $V_{i} / f(\%$
'The Tide Icn at leaft ba make up till : the Botkil it falls long befo about, the T in at the Char Moon.

The firft of wards the L : hours Flood ; S.S W. and th be S.S E. an Bhankernburg the Eaftward from thence at all.

Againft $Z e$ runs towards

Notc, Yc Water.

## Sailing Directions for the Cbannels of Ter Veer, Zi

 Zealand. Everal Channels run between the Iflands of Walcheren and Schowen, all in the Province of Zealand, which affift in forming the feveral Illands of Zealand, as particularly the Veer Gat, the Roman Pot, and the Velt.
To go into the Veer Gat coming from the Northward, you mult run right with $W$ eft Cbapel, kecping it S . from you till Niddleburg come over Eaft Clapel: you mult not come at all to the Weilward ot the S. for then you will be upon the Benjacert; but keeping it $S$ as above, you will come paft the Benjacrt without danger. Then go right with Eafft Chapel and Middthurg, till Cortgorn come a Capton-bar's lengrh to the
and run thro' Eaftward: Y plat, having ther) thote , run away to abouts, till t without the right with Shore you g

You have the Inland of crmof Point

8 to $1 \circ$ Fa. Upon this Courfe, you may alfo run right into Flufhiug by the Botkil Channel. A little from the S.W. end of this Stone Bank lics the Oyfter.bink, which is not very long, and has \& Fa. at low Water. Bring Eaft Cloapel a little to the Eaftward of Domburg, you may then fail towards the Shore, having decper Water, and to run along by it to $F / h_{1} / b$. ing as aforctaid.

## The Scts of the Tides in there Places.

Before the Weilings a S. by W. and S.S.W. Moon makes ful! Sca.

At Flushing and Rammekins a S.S.W. Moon.
At $W$ igl Chapel upon the Inland of Walcherch, a S. Moon.
'The Tide does not begin to make our till the Water has fal. Ien at leaft half an hour; and the like at the Flood, it does not make up till after the Water has livell'd half an hour. Before the Botkil it begins to turn an hour betore high Water, but it falls long before at Sca. In the Splect, and on the Shoals thereabour, the Tide turns about againit the Sun, and at lalt falls in at the Channels above-mention'd. 'Tis full Sea there at a $S$. Moon.

The firft of the Flood which runs over the Shoals there towards the Land is at an E.S.E. Moon, or when it is about 2 hours Flood; then it begins to turn to the Southward, firlt S.S W. and then paft the South towards the E. until the Moon be S.S E. and then the Flood falls towards the E. When Blankenburg bears about S.E. by E. from you, from thence to the Eaftward the Tide turns about againit the Sea; whereas from thence to the Weftward the Tides do not turn about at all.

Againt Zealand in the Fair Way, a third part of the Flood runs towards the Land, and afterwards E. by N.

Note, You may fee Zealand from the Deck in 16 Fa, Water.

Ter Veer, Zirrickzee, and Brewer's Haven in Zealand.
and run thro' between them, then go about by the firft to the Eaftward: You will allo tec two Buoys more on the $W$ Wolplat, having Tails as the other (they are leen from one another) thofe you mult leave alfo on your Starboard fide, and run away to the Northward of them both, E.S.E. or thereabouts, till the Stecple of Konkirk upon Schowen comes even without the Point of the Land of Sibowen: Then you ttand in right with the Point, and abour it ; and kecping by the Shore you go right with Zirrick:zee.

You have yet two other Buoys in going for the Point of the Ifland of Schowen; the one on the Larboard fide on the Eaftcrmoft Point of the Sand called the Beryart, and the other
 Everal Channels run between the Elands of Walcherem and Schowen, all in the Province of Zealand, which affift in forming the feveral Iflands of Zealland, as particularly the Veer Gat, the Roman Pot, and the Volt.

To go into the leer Gat coming from the Northward, you mull run right with $\mathrm{Wc} / \mathrm{ft}$ Chapel, keeping it S . from you till Aleddleberg come over Lift Chapel: you mull not conic at all to the Wellward of the S. for then you will be upon the Benjacret ; but keeping it S. as above, you will come part the Benfacet without danger. Then go right with Daft Chapel and Middelburg, till Cortyoch come a Capton-bar's length to the Southward of Weft Kirk, (which are two Towers Standing in the funk en Land off of the Land of (ats) and which will then bear E.S.E. from you: Keep them fo, and then run right in with them, and you will fee the fist Buoy of the Veer Gat. There are; large Buoys in the Chanel ilhap'd like Casks; you mut leave them all on the Starboard Gide, but you pals by nother Buoy on your Larboard fides, before you come to thole three. This tat lies on the Point of the Pole of the Sand calIed the Benjuert, and is shaped as the ordinary Sea Buoys are : The fort Buoy in the Veer Gat lies in $3^{\frac{1}{2} \text { Fa. the Courle by }}$ all the three is S.E. by E. fomething Southerly, and they are all in fight of one another. The fecond and third Buoys lie in 2 Fa. each upon the Point of a Sand called the Maid. Over agana the third lies a Sand called the Unreft, which lies with a long flap Point looking towards the fid third Buoy. The Chanel is not very broad here, between the two Shoals, to you mut run clofe along by the Buoy to the Northward of it. There is not above 2 Fa or $2 \div$ between the Points of the $V_{n}$ refl and the Buoy; but thwart the two other'tis broad and deep enough. When you are pat the third Buoy, you go right away to 7 er Veer. Over-aguinit the Town lies a Flat culled the Scot/jman, which you mut avoid, leaving it on the Starboard fides.

There are several Channels likewife to go into Zirrickzee, as the Roman 'Pot, the Volt, the New '1)ecp, and the Keel. If you would go in by the Roman Pot, and are pat between the above.named Buoy on the Point of the Pole, and tie firth Buoy of the Veer Gat, you then bring Dombury to the Hoot, which is a white Sand hill upon the Inland of $W$ Valcheren, Somewhat like thole called the Woolfacks upon the Inland of Schowien: Keep them in one, and you will run by two Buoys more, on your Larboard file by the Pole, you will alto fee one Buoy with a Tail lying on the Weft Point of the Woolplat, over-againf the third Buoy of the 'Pole, you mut leave the Buoy with a Tail on your Starboard fides,
and run tho Eaftward: plat, having thar) thole run away t abouts, till without the right with Shore you You lav the Inland of croft Poon with a Tail root, lying mut pals b you multi lc without 'Ta tare about t fid Buoy w by Day-ligh this Sand b. the Night, Shore of Sc

To fail t will direct near the So Caplin Bar end of the $B$ then go in will have 2 of the $N e=:$ by the fane 20 Foot Berljaert (i) ${ }_{5}$ Fa. clofe again Soho on the S . fo

To go houses a lit the Weft en length to fafely with 18 Foot W you are th If you bring will go ope

## Ter Veer, Zirrickzee, and Brewer's Haven in Zealand.

alcheealand, f Zea$n$ Pot,
d, you ou till cat all c Ben c Ben el and to the ding in h will 1 right $r$ Giat. ; y y u y anothofe ad calys are : afe by cy are slic in Over es with The sals, to d of it. he $V_{n}$ ad and ou go a Fiat on the
ickzece, = Keel. aft bec, and ury to f Walon the run by , you Point Pole, rd fide,
and run thro' between them, then go about by the firft to the Laftward: You will allo tee two Buoys more on the Wootplat, having Tails as the other (they are feen from one another) thofe you mult leave alfo on your Starboard fide, and rum away to the Northward of them both, E.S.E. or thereabouts, till the Stecple of Konkirk upon Scho:wen comes even without the Point of the Land of Schoowen: Then you fland in right with the Point, and about it; and keeping by the Shore you go right with Zirrickzec.

You have yet two other Buoys in going for the Point of the Inand of Schowen; the one on the Larboard fide on the Eaftcrmoft Point of the Sand called the Beryart, and the other with a Tail on the Starboard fide, on the Point of the Pool2ioot, lying between the Ifland of Schowica and Orefaid: You mult pals between thefe rwo Buoys; all the Buoys with Tauls you mult leave on the Starboard fide, as you go in ; and thote without 'Tails on the Larboard: The Fillhermen generally venture about to the Eaftward of the Polevioot-Saild, and leave the faid Buoy with a Tail on the Larboard fide ; but then 'ris only by Day-light, and it is not the fafeft. You may borrow of this Sand by your Lead, but you mult heave very quick in the Night, the Fillhermen themelelves run clofe along by the Shore of Schower. Note. The Shore is very flecp.

To fail to Zirrickzeee by the Velt, the following Marks will direct you: There ftands a Tower with a Beacon upon it, near the Southermoft end of Schowen. Bring that Tower a Captan Bar's length to the Southward of the Southermoft end of the Beacon on the Weft end of Scho:ich, and you may then go in betwixt the New Sand and the Benjaert, and will have 2 Fa. to 14 Foot Water thwart the outmont Point of the Newfand; and when you come in by the Shore, run in by the fame Directions. As for the Keel, you will then have 20 Foot Water by the Shore : But yon mult beware of the Benjaert (in this Courle) which is very ftecp, for there is 3 to 5 Fa. clofe to it on the N. fide; but thwart of the Sheal over againft Schowen there is 6 to 7 Fa. The New Sand is pretty ilat on the S . fo that you may borrow there by your Sounding.

To go by the New Deep, you mult oblerve two Light. houfes a little to the South ard of the Beacons which are on the Wcft end of Schoseen : Bring the innermoft a Hand lipike's length to the South of the outermoft, then you may run in fafely with them berween the Hide and the Newo Sard in 16 to 18 Foor Water ; running thus till you come near the Shore, you are then encer'd the Keel, which is the fourth Chinnel: If you bring the two Light-houles into one. and fo run in, you will go over the Tail of the Hide in near ${ }_{2} \mathrm{~F}_{\mathrm{A}}$.

* H


#### Abstract

$N: B$. The Hide is a flat Sand, and you may venture to come near it on the S. fide by Sounding: but the $\Lambda^{\prime}$ (ou I'and is dangerous, very ftecp, and the Sea breaks upon it with great Force.


The following Dircetions are for going into Zirrickzec by the Chamel called the Kicel.

Upon the Wett end of Schowen are the two Beacons mention'd above; bring them into one, and run right with them, rutil a Spire Stceple called Renift come to the Blenk, or "Oolfack, a white Sand-hill higher and whiter than any of the other Sand hills, go on thus till Ter Veer come to the 1/0\%, which is the Weftermoft Point of Schowent: Keep them to till you come near the Shore, then run under Shore, and you will have in the thoaleft of the Chamel, Fa. Water, and agantt the Hoot Point 4 to 5 Fa. between the Hoot and the New Jand, which cbbs dry at lome Places of the Eaft end. Youmay run along by the Shore of Schowich till you come thwart the Southermoft Beacon ; then edge off towards the Feyjact, to avoid a Shoal which lies off from the Sibowe'l; there is a Buoy upon the near end of it, to that 'tis eafily known: Some go within the Shoal from the Scaward, but 'tis hazardous. Having paft the Shoal, you go away by the Shore to Zirrick ice.

At the other end of this Shoal is another Buoy for thote who fail out that way, that they may thun the E fide of it. Note, Thofe Directions ferve allo when you go in by the $V$ olt or the Neu' Decp, after you come into the Kecl.

There are two other Channels between the Inland Schowen and the Goree ; the Southermoft which is for great Ships. is called Rrewir's Haren, the Northermoft for Imaller Vafels is called liewitfen, and there is a great dry Sand between them called the Springer, which is never under Water but on very high Tides. On the fide of the Inand Schowen there are 3 Sands thwart of the Brewer's Haven Channel ; one called the Broad Bank. or the Brece, it lics at a good diftance from the land, having 7 Fa upon it, and ig Fa, within it: The lecond ss nearer rhe Land, and has; Fa. upon it and 7 within it: The third is called the Oofter Bank, which runs in to the Vattward chole by the Land, and has no more than i Fa. in lome places. If you would go into the Channel of Brewer's Haren, you mu't kecp to the Wcftward of this Sand by the following Marks, $2=$.

Bring, the two Beacons at theWeft end of Schowen into one, and kcep them to till the Stecple of Renift comes on the Bleuk or "I'olfock; then Icaving the Beacons, kecp to the Marks of the taid Blenk and Renift, till a little white Spire Seceple upon the Ifland of the Gorece called Ont drop comes on the Steeple of ciorce, and to you may go in between the Ooffer and the Blems, a little to the Southward of the outermolt Buoy, till you come within the Oofter, and to till you come near the fecond Buoy; Or (if there fliould be no Buoys, till the Bominir come a lutile without the Oftefteert or Oriatl, being a Point of

## on the Coafts of Zealand and Holland.

Schowin Weft of Brewer's Haven. The ....ancl that way is
venture to $\therefore$; but the Sca breaks
rickace by
:acons menwith them, a Blenk, or han any of ome to the wen: Keep under Shore, 3 Fa. Water, Yoot and the ic Eaft cud. II you come towards the he Schoow'tl ; afily known: is hazardous. , Zirrickare. for thole who of it. Note, Volt or the
land Schowen cat Ships, is naller Veffels ectween them but on very there are 3 me called the nec from the The lecond thin it: The the liaftward lome places. Haven, you he following

Yen into onc, on the Blenk o the Marks c Stecple up: near the fe. the Bominti: ng a Point ff
n the Steceple southely or S.W. Wind befor the Fible ber with a n the Steeple Southerly or S.W. Winc, before the Flood be half fpent: for
offer and the the later part of the Ebb and the firft of the Flood, run thwart ift Buoy, till over the Beujaert hard in at the Room 'Pot, or Roman Pot to-
broad and decp, and very fit for great Ships. If you turit to Windward cither out or in, youmay go on either fide of the Buoys, but to the Southward is the deepeft Water in the Fairwiay; except that the third Buoy, which has a Tail, and lies on a Point of Sand which runs off from the Oyfler, lies near a limall Shoal, to that you mult not go to the Northward of this Buoy, unlets yougo clole by it. Having paft this Buoy, the Shore of Schoiucn is all clear of Sands, and itecp too, with decp Water, and you may run fafely by it all the way to Brewer's Haven. The thoaleft of this Channel is 3 Fa to ${ }_{3} \mathrm{Fa}$. 1 Foot, at leaft for a League beyond the Land, as you come in beeween the Ooftir and the Hides; and farther in it is 4 to ${ }_{7} \mathrm{Fa}$ and in fome places 10 to it Fa. at low Water.

The other Channel is the Kevitfin. To find this, bring the Stecple of Zirrickzee S.E. by S. or rather a little Southerly, and you will fee a Wood, fhowing it telf near Zirrickzee Stecple: bring that and the faid Stecple into one, and you may run right in, till you come againtt the Sand, or as acar as you can ; founding for the Depth. Then you are as far to the Weftward of a Shoal called the Wefthead as you need to go : being thus come within the Wijtbead, againft a Sand which lics on the South fide, 'ren go in Eatt along by the Springer, from the cud of wh there alfo fhoots off a Point, "hich you will find by your L...., N.E. by N. from the middle of che springer. When you are goten beyond that, you may run dircetly for Brewer's Haven. Alfo bring the Stecple of Zarrickzee a litele open to the Eaftward of Opflefteert or Oxtail; then you are clear of a Point or Sand called Ooffer-bill, which Atretches from the Springer towards Brewer's Maven. Thro' all this Channel you have io Foot Water in the fhoalett.

The Sitts of the Tides.
In the Vier Gat a S. Moon makes full Sca. A: Tor Ver a S.S.W.
It the Brewer's Haven Cbannel a S. by W. Moon. E:fore Brewer's Haven Town a S S.W. Moon. /at Zirrickzee a S.W. Moon.

Before the Channcls of Brewer's Miven and Tir Veer the Food turns about with the Sun; fo that the After flood runs ii: at the Channels. and then turns abour to the Southivard, and holds running to till the Ebb; but the latecr part of the Ebb runs right out of the Channels thwart into the Sca, and the Fore-flood turns about to the Northward.

Note, It is not good to run in at the Veer Gat with a wards the Land of Sclowen; but when the Flood is half fpent, then it runs right in at the Ver Giat. At a S.E. Moon it is two thirds Flood.

Sonal limk, or the Brec, it lics at a good diftance from the Tand, haing 7 Fa. upon it, and 19 Fa. within it: The fecond is neate the land, and has $\mathrm{g}_{\mathrm{a}} \mathrm{f}$ upon it and 7 within it: The rhat! is called the Oofter Bank, which runs in to the Eaftward clofe by the I.and, and has no more than i Fa, in tome places. If you would go into the Channel of Brewe's Hiven, you mitt keep to the Wcitward of this Sand by the following Muks, riz.

Bring the two Beacons at theWeftend of Schowen into one, and keep them fo till the Stecple of Renilt! comes on the Blenk or Woolfack; then Ieaving the Beacons, keep so the Marks For of the taid Blenk and Rentf, till a little white Spire Stecple upon the Ifland of the Goiec called Outdrop comes on the Stecple Sou of Gorce, and to you may go in between the Oofter and the the Blens, a little to the Southward of the outermoft Buoy. till ove you come within the Oofter, and to sill you come near the fe- war cond Buoy; Or (if there fhould be no Buoys, till the Bomint thet come a litle without the Oftefteert or Oictail, being a Point of rivo

## Sailing Directions for the Claann



HERE are two Channcls go in between the Gerre and the Briel: the Northermoft is calied the © Guacts Deep, which is for fmaller Veffels; the other to the Southward is called the Gorees $G$ att, where the grat Ships go in : and there is a great Flat between them called the Hinuct, where at low Water is not above; to 7 Foot Water. To inat Gorecs Gat. you muft bring the Stecple of Gere and e Beacon upon the illand of Gorec in onc, bearing Eand E. by S. from you. If you cannot fee the Beacon, then bring the Steeple E. by S. and E.S E from you; and then as the Wiad may ferve, fail in right with it, till you come clote aboard the Shore; and then go within a Stone's-caft of the Land along by it E by N. nd E. till you find the Land tall off to the Southward. Thercabout runs a little Tail of Sand off from the Shore, which you may fail within when you go out, bur not as you go in ; to you muft edge a little from the Shore. Being paft the 'Tail, luff up again towards the Haven of Goree, and youmay come to an Anchor before it.

If you would go up higher to Helioet fluyr, then bring a Miil which is to the Weftward of Goree a little to the Northward of Gorce Stecple; and keeping it fo, rum up to HelvoetJluys: By this means you will thun the Flat which lies over agnint Helvoct fllys to the Southward. If when you are going up the Gorece Gat, the Wind thould be foutherly, and you cannot bring the Beacon and Stecple into one, you may bring the Stecple E.S.E. or a Capfton Bar's lengeth to the Northward of the Beacon; and then un over till you come near the Shore, the nearer the better, by which you will run over the Tail of the Minder in $2 \frac{1}{2}$ Fa. Note, Alittle within the Beacon is the narroweft of the Channcl, farther in'tis wider; 'tis rifing Ground on the N. fide towards the Hiader, but the S. Shore is ftecp too.

## Itance from the

 it: The fecond withis it: The to the battward in tome places. ,'s Hach, you the following$100:=4$ into one, ies on the Blent , to the Marks pire Stecple up. :s on the Stecple Oofer and the moft Buoy, till me ncar the fetill the Bomine being a Point of

> A:Terer a S.S.W. In the Brewer's Hacen Cbanuel a S. by W. Moon. Etore Briwer's Haven Town a S S.W. Moon. /.st Zirrickzec a S.W. Moon.

Before the Channcls of Brewer's Haven and Ter Veer the Food turns abour with the Sun; fo that the After flood runs If at the Channels. and then turns about to the Southward, and tolds running to till the Ebb: but the lateer part of the Ebb runs right out of the Channels thwart into the Sca, and the Fore-flood turns about to the Northward.

Note; It is not good to run in at the Veer Cat with a Southerly or S.W. Wind, before the Flood be half fipent: for the latter part of the Ebb and the firft of the Flood, run thwart over the Benjucrt hard in at the Room 'Pot, or Roman 'Pot towards the Land of Schowen; but when the Flcod is half fipent, then it runs right in at the Veer Gat. At a S.E. Moon it is rwo thirds Flood.

## as for the Channels of Goree and the Maes.

ween the Gorie alled the $\underset{\sim}{\text { Guacts }}$ the ether to the where the grat them called the ${ }^{\circ} 7$ Foot Water. ecple of Gire , bearing E.and con, then bring ad then as the ou come clote a-one's-caft of the hc Land tall off Tail of Sand off icn you go out, from the Shore. Haven of Gorce,
r, then bring a le to the Northup to Hetroetwhich lies over en you are going $y$, and you canyou may bring he Northward of ar the Shore, the the Tail of the $n$ is the narrowifing Ground on ore is flcep too.

If you come from the Weftward, and would find $(\cdot)$ macks Tecp, you muft kecp the Stecplc of the Briel E from jou. and to run as if you were going to the Bricl, till a great Country Houte, which ftands a little within the Point of the Quack, comes to the fouthern Sand-bills of the Land of the Briel, which will then bear S.E. from you; kecp them fo, and run right in, till Oofteflecert comes to the Weftermoft or Southermott Sand bills; then run along by the Shore a little more Southerly, till Coree comes quite open to the Eaftward, or within the Sand-bolls, and then you are paft the Eaftermoft Point of the Hinder, which the Pilots call the Buyen. Then you may go to the Gorce, or to the Eaftward of Melecetfliys, or where you plafe.

The River Macs opens between the Coaft of Holland and the Land of Voorch, and has two Channcls; the Southermoft gocs in by the Land of Vooren or the Briel, and the Northermoft by the Shore of Holland. Between thefe two Channels lies a great Sand called the Honde Flat, where is not above $\sigma$ to \& Foot at low Water.

To come in at the Sonthermoft Channel from the Scaward, and betore you are near enough to tee the Beacons, bring the Steeple of the l'rul, which is a large fquare Tower, to bear E.S.E. from you, fomewhat more Eafterly according as you get fight of the Beacons. When you fee the Beacons, bring them rogether, and fo rum right in with them: Otherwite brng the Stecple of the Rirut a Handfipike's Icngth to the Northward of Cofivonn, and fo you will be certain to run right with the uemont Buoy, where you have 3 Fa at low Water. From thence to the icenid and third Buny you muft Itecr with the Beacons; the tee and bues lies in 13 , and the third in 11 Font Water. Thwart of thas you will tee the Stecple of Govec a little upon the

## Directions for Sailing on

the Shore of the Land of the Bricl. The fourth Buoy lies near upon the lame Courfe from the third a little Southerly, ftall going right with the Beacons. Between thefe 4 Buoys is the flooalef Place iu the Maes, being not above 10 Foot Water ; but at the fourth Buoy it begins to deepen, the Buoy lying in $1_{1}$ Foot from withour till you come to the Buoy. The Channel is of a good breadth, to that you may turn up a good way on both fides of the Buoys, and borrow of the Shore on cither fide by your Lead: but right along, a little to the Southward of the Buoys, is the beft of the Channel. The firft Buoy lics in from the fourth N.E. by E. on the North fide of the Channel on the Honde llat in in Foot; and this you muft leave on your larboard fide, and go about to the Southward of it. From the fourth to the fifth, along to the Southward of the Buoys in the Fair Way, it is 13 to 17 Foot deep, and near the fifth Buoy; Fath. The fixth Buoy lics E. by N. from the fith in in Foor Water. On the North Shore, or Honde Flat, alon; to the Southward of it, the Chaunel is at the narroweft, and 5 or 6 Fa. Water: Thereabouts the S. Shore is fecep too. Clofe to it you have 6 to $6 \div \mathrm{Fa}$. As foon as you arepaft the fixth Buoy, you bring Mar land Shuice and the Stceple of 'Vlardengen into one; keep them fo, till you get the Houlc of Lucht on with simbrock, and then you will be far enough to the Northward of the 'Polder, and be by the fide of the leventh Buoy, where you come into 4 and $4 \frac{1}{2} \mathrm{Fa}$. Water : then you may fail to the Briel, and take a Pilot there to any other Place where you pleale.
> $N$. B. The Houfe of Luclot ftands upon the Dike between Swaertwal and the Head of the Briel. N. B. That all the Depths mention'd above, as well as thofe in the refl of the Directions for the Maes, are reckon'd for low Water at the lowelt Ebb of the ordinary Tides.

To go in by the North Channel of the Macs, and S.W. from Gravejand, you will fee two Beacons: Bring the innermoft half a Handfipike's length to the Southward of the outmoft, which will be E. a little Southerly from yous: Kesp them there, and you will go right in with the outmont Buoy, which lies in $3+$ Fa. low Water.

But if you conce from the Northward within the Sands, and keep the Soundings of the Shore in $3 \div$ or $3 \div$ Fa. at low Water, accordung as the Tides may rife, you then go right with the outmolt Buoy; or if you lic ftill nearer the Shore in 2 Fa. then you will fall with the fecond Buoy. In all this Courle you mult go right with the Beacons, which lie in 10 to 12 Foot Water, which is the fhoalcel of the Channel, right againft the outmolt Point of the Land on the North fide, but nearer the Honde Flat than the Point; to that you mult go about to the Northward of it. You may on occafion go to the Southward, but the other is the broadelt Chamel.

From this Nurth Point runs off a Tail of Sand, which you mult be very careful to avoid; tho it be but finall it is feep, and there is a great Breach of the Sea upon it. Sometimes if the Winds are Wefterly, the Sca is all in a breadth over the Northern Chunce thuart thar fecond Buoy, fon that it does not
der, juft agair the Briel, ca where is a fla wail, and go Bricl.

If you wou Buoys, Ica: in is the caltmo Crabb, whict Bricl. But i forc faid Mark and then alot runs a Tail of ward bound y Heads of $S$ Briel to the in the fouthward, farther to the way, if you a lot at the Br

A little to where the Flo out for a Woo Point of the you may be i the Tarwe S، Mouth of the weltward into Keep then the Wood, and thould let tic bring too imn of the Sand.

To the no by which you would go in Stecple of $R$ Briel come of Rofenburg in the Old M, paft Vlarding may take the a mall Shoal nearer the $S$. the Mars. towards the

If you arc are paft sche you come bo terdam, the febry and the S. Shore agai paft $S_{c}$ bocida Houfe upon Charlois, wi
der, juft againf the Dike between $S$ wartwael and the Head of the Bricl, called the Lucht : Bring that on with Ambrock, where is a flat Stecple a little on the Southward of Swartwarl, and go right in with them till you come before the Bricl.

If you would anchor at the Briel, you muft pafs too other Buoys, Icaving then buth on your Larboard-fide : The firft is the eaftmoft againf the Polder, the fecond is upon the Crabb, which lies off from Rofenberg, and reaches part the Bricl. But if you are bound higher, then make ufe of the fore faid Marks of Ambrock, till you come near the Shore, and then along by it, till you come to Hecuzliet. There runs a Tail of Sand from the E. cud of Rofenberg, which upward bound you may go within: But if when you are paft the Heads of Swartwal l, you cannot bring the Tower of the Briel to the northiward of thofe Heads, but that you fec it to the fouthward, then you cannot pasis that way, but muft go farther to the fouthward of it; and ir will be your beft way, if you are bound to Rotterdath or higher, to take a Pi lot at the Briel.

A little to the eaftward of Hecuvliet goes in the Old Maes, where the Flood lets in very ftrong; thercfore you mult look out for a Wood on the S. Shore, a litele to the caftward of the Point of the Old Maes: Here, if you are not acquainted, you may be in danger of running upon the $W$ locat Sand, or the Tarwe Sunt, which is a great Flar in the Middle of the Mouth of the Old Maes, lying out with a long narrow Point weftward into the Channel, and ebbs dry at low Water. Keep then the Stecple of Rotterdam to the northward of the Wood, and you will go clear of the Wheat Sant. If you thould let the land Steeple come to the fouthward of the Wood, bring too immedately, or you will certanly be upon the Tail of the Sand.

To the northward of the $W$ bbeat Sand goes in a Channel, by which you may go up to Dordrecht, or Dort. If you would go in there, go by the Marks above, viz. of the Steeple of Rotterdan and rhe Wood, till the Stecple of the Briel come over a tiled Houle upon the S. fide of the E. end of Rofenburgh: Keep them fo, and you will fee the firf Buoy in the Old Maes. Being paft the $1 /$ is, keep the Mid Chanuel paft Vlardingen to the five Slafes; and from thence yous may take the S. Shore, and run clofe by it, till you are pait a mall Shoal, on which is about in Foot ai low Water, the nearer the S. Shore the decper. This Shoal lies quite over the Mates. As foon as you are over this Flat, go away right towards the Head of Scbeidam, where is the deepeft Waser.
If you are bound to $\mathcal{D}$. lft Harbour, then as foon as you are paft sclocidam, keep the Soundings of the N. Shore, till you come before the Harbour: But if you would go to Rotterdam, then go ftill on the tame Shore, till you bring ÖcrSebry and the Houte of Spam into one; then edge over to the S. Shore again, and run along by it: Or as foon as you are paft Scberidam, bring the steceple of Vlardingen over the third Houfe upon the Head of scheeidam, till the Mill and the Head Cbar lois, with a litele Woodupon it, come on together. And
 whuh will be E a little Southerly from you: Keep them there, and you will go right in with the outmont Buoy, which lies in $3^{\frac{1}{3} \text { Fa. low Water. }}$

But if you come from the Northward within the Sands, and kecp the Soundings of the Shore in $3 \frac{1}{\dagger}$ or $3 \div$ Fa. at low Water, according as the Tides may rife, you then go right with the outmolt Buoy; or if you lie ftill nearer the Shore in 2 Fa . then you will fall with the fecond Buoy. In all this Courle you mult go right with the Beacons, which lic in 10 to 12 Foot Water, which is the fhoaleft of the Channel, right againft the outmoft Point of the Land on the North fide, but nearer the Monde Flat than the Point; to that you muft go about to the Northward of it. You may on occafion go to the Southward, but the other is the broadeit Chamel.

From this North Point runs off a Tail of Sand, which you mutt be very careful to avoid; tho it be but fimall it is ftecp, and there is a great Breach of the Sea upon it. Sometimes if the Winds are Wefterly, the Sca is all in a breadth over the Northern Chamel thwart that fecond Buoy, fo that it does not look like a Channel: but you need not fear to run clote along to the fecond Buoy; for you will have 13 Foot Water at lealt at halt Flood quite over all.

From this Buoy to the third the Courfe is a little more Northerly, and you may cafily fee from one Buoy to the other. When you are at the third Buoy, the innermoft Beacon thews to the Northward of the outmoft. This third Beacon lies at the North cnd of the Raffin in ${ }^{11}$ Foot Water, io docs the fecond (to the Northward of which you mult go about) and the Depth is all the fame from the one to the other. The N. Shore isftecp, oppofite to the fecond Buoy, but flatter a little at the third. 'Ihe fourth Buoy lies upon the S. end of the Raffen, S.S.E. from the third.

NB. The Raffin is a ftripe of Sand on the Eaft fide of the Honde Flat; 'tis ftecp on every fide, and at the fame place ebbs dry ar low Water.

Between the third and fourth Buoy in the Fair Way is 14 to 16 Foor Water ; and this part is by the Fifhermen called the Y'an: It rifes on the N.E. fide, where, if you turn it up, you may borrow by your Sounding as thoal as you pleafe. When the Stecples of Mhufter and Gravefand come open to the EaftWard, then you are paft the Raffin. The fifth Buoy lies in in or 12 Foot Water upon the Eaft Point of the Sand called the $N e^{\prime} R 266$, which hes from the fourth Buoy S.E. by S. All thofe Buoys as you go up, you muft leave on your Starboard fide. A little to the Eaftward of this Buoy, the two Chanuels, viz. the S . and the N . Channels come both into one.

From the fitth Buoy to the fixth, which is that againft the Polder, it is near the fame Courfe; but they are to be feen from one another. Thwart of this fixtth Buoy, which you mull leave on your Starboard fide, you have 2 and near 3 Fa. Water. To the Ealtward you will lee a Houle upon the 'Pol.
wourd
the outmolt, Kesp them uoy, which

Sands, and t low Water, with the out2 Fa. then Courle you to 12 Foot t againft the It nearer the about to the e Southward,
which you $t$ is fteep, and etimes if the ver the Norit does not in clole along Nater at leaft
le morc Norother. When thews to the at the North he fecond (to the Depth is hore is fteep, at the third. ?alfen, S.S.E.
ce Eaft fide of od at the fame

Way is 14 to en called the in it up, you leafe. When en to the Eaftwoy lies in II nd called the E. by S. All our Starboard ic two Chaninto one.
lat againft the - to be feen $r$, which you ind uear 3 Fa . upon the Pol-
wourd go in mere, go by mis marks avove, viz. of the Stecple of Rotterdam and the Wood, till the Stecple of the Briel come over a tiled Houfe upon the S. fide of the E. cnd of Rofenburgh: Keep them fo, and you will lee the firft Laoy in the Old Maes. Being paft the M ees, keep the Mid Chanmel paft Vlardingen to the five Sluyfes; and from thence you may take the S. Shore, and run clofe by it, till you are pait a fmall Shoal, on which is about in Foot at low Water, the nearer the S. Shore the decper. This Shoal lies quite over the Mates. As foon as you are over this Flat, go away right towards the Head of Scheidam, where is the deepelt Wascr.

If you are bound to $\mathcal{D} \cdot l f t$ Harbour, then as toon as you are paft Scheidam, keep the Soundings of the N. Shore, till you come before the Harbour: But if you would go to Rotterdam, then go ftill on th: fame Shore, till you bring Overfebry and the Houfe of Span into one; then edge over to the S. Shore again, and run along by it: Or as foon as you are paft Schididm, bring the steeple of Vlardineen over the third Houfc upon the Head of scbeidam, till the Mill and the Head Clarluis, with a little Woodupon it, come on together. And by this Courfe you mifs a litele Shosl, which lics on your Lar-board-fide about halt-way between S'cheidam and Delft Harbour and go allo to the fouthward of a Shoal, which lies juft before the Harbour.

Upon the aforefaid Flat you have not above 7 Foot at low Water, and upon the Shoal before the Harbour but 2 to 3 Foot; and both areftecp too. When the laid Mill and the Head of Charlois come in one, keep them in till you come to the New Head of Rotterdam; and then run clofe in between the Town and the Flat, and there come to an Anchor.

## The Setts of the Tides.

In Gorees Gat and beforc Goree, a S.W. by S. and S.S.W. Moon makes full Sca.

Before Helroet fluys, a S.W. by S Moon.
Before the Briel, a S.W. and S.W. by S. Moon.
Before D rdrecht, a W.S W. Moon.
Before the Old Maes, a S W. Moon.
$\left.\begin{array}{l}\text { Before Rutterdam, } \\ \text { Before the Maer, }\end{array}\right\}$ a S.W. by W. Moon.
Thwart all thefe Places, out of fight of Land, it is a Point, or a Point and half later before 'ris full Sea; the farther from Shore, the later.

Between Maes' Deep and the Maes, in the Fair way, the firt of the Flood comes our of the $N$. curaing out by little and litele N.E. by $N$ towards the Land. Soon atter the Flood makes up without $G^{\prime \prime}$ Gat, it does the like in the Guries Gat; and to before ans" in the Maes.

Clote before the Chainels by the Land, the Tide turns about to the Sun; fo that when the after Flood runs into the Channels, it turns fouthward, and runs like the Ebb.

The after Ebb rums again thwart off to Scaward out of the Chanucls.

## Directions for Sailing on the $\mathbf{C}$

## Sailing Directions for the Coaft of Holland,

HE Texel lics N.N.E. northerly from the Maes, diftance $2_{4}$ Ls. it is a level low lland, and all the way is a clean Coaft, which you may come as near as you pleafe in + to 5 Fa. alfo you have Towns, Churches and Stecples in fight all along on the Shore, tufficient for Marks to fait by.

Gravefand is on the N. fide of the Macs, and is cafily known by its high Spire-Stecple. A little to the northward of that is Hey, without any Stecple; but within and near Hey flands a Tower-Stecple calld Mouffer: From Gravefind to Hey is 1 L. thence to Scheveling is 2 large Ls. N.E.
N.B. The Choir of the Church of Scberecling is higher than the Body of the Church.

A little to the fouthward of it is a Beacon or Light-houfe, and abour a League within is is the Hague, where is a high Chureh, the Choir of which is higher than the reft of the Church, as at Sclopereling ; the Hague Steeple may be feen tar above any Part or Place in the Country. From Schevelang to Catwick is ${ }_{3} \mathrm{Ls}$. Here is a fquare Tower allo: It formerly had a Stecple upon ir, but it is down : And to the fouthward of it is a high Light-houfe like a Tower-Stecple. Here if you fland in near the Shore, you may fee far within Land upon the Robise. Rhysburs and Valkenburg, both with Spire Stecples. From Catzich it is i League and a half to Nortwick. Here is a 'Tower Stecple with a Light-houfe juft by it ; and to the northward withut the Land is another Town of the fame Name, with a fquare Tower-Stceple, and a little Beacon upon it ; and another Icflce Tower on the Middle of the Church. Santfert is 3 l.s. from Nortwick, with a Spire-Stecple. A litele from it fouthward is a very high Beacon on a black Sandhill, which looks like a Stecple. To the northward of Santford you fee Haerlem Church far wihin the Land, and as over a white Sand-hill: The Church appears in form of a $t$, and has an exceeding high Spire-Stecple upon it: Alfo there appears a finaller Spirc beyond it to the northward, calld Breeknefter.

## N. R. Againft this Town the Coalt falls in, making a large Bay.

From Santford it is 3 I.s. to Wick, where is a fquare Tower Stecplc. Thwart of i/ ick, a little to the northward, you fee Bevitwirt whin the Iand, a high Spire Steeple. From 11 ick is 3 Ls. to Esmont ; here is a large Tower Steeple like a Suil, it appears olla Sind hill. A little to the fouthward you

The next next Ble'm and at leng the F cod the Holder Dike in th the great Kickerfido

Upon tl is St. Yobln it 1 ajflycu To the we third is to Oogh, or Stecple, be

The $F y$ at a high I lietle flat and but tw

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Coalt of $A$ towards along the You ma of Land, Maes, by calm: To but to the quarter of You ha land for ti of fight o Wind be t

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## ailing on the Coafts of Holland.

## of Holland, betweecin the Maes and the Texel.

res, difway is as you ics and : Mark
cafily ward of :ar Hey Cilld to
icr than
t-houfe, a high of the fen far ching to ormerly uthward e if you Id upon Spire twick. ; and to the fame on upon Church. ple. A k Sandof Sant1 as over $t$, and cre ap1 Breek-

The next fourthward is call'd Dirckoom's Sand-hill, and the next Blenk. From thence they run off iloping touthward, and at lengeh to nothing, or to only a low flat Sand. Upon the F. cnd call'd the Holler, are fome Sand-hulls; and betwixt the Holder and Kickerforion are fome Sand-hills allo, like a Dike in the Mid-way, on which ftands the outmof Beacon, the great Beacon being more within the Land, E. from Kicker $/ d$ do $\because n$.
Upon the Texel Ifland are four Churches; the weftermoft is $S_{t}$. \%oln's, with a high Spire Stecple, but the Sailors call it $W$ "iflycud, and $W^{\prime}$ eferu, and $W^{\prime}$ ambur., all meaning the fame. To the weflward of it is another Spire call'd the Hoorn: The third is to the northward, call'd the Burgh: The laft is the Oogh, or Kogh, and is the northermoft of all, but has no Stecple, being cover'd with bluc Slate.

The $f$ fyerland is a fimall Ifland ucar the $\mathbf{N}$. end of the Texel; at a high Tide it is parted from the Texel by the Sca : 'Tis a little flat Illand with fimall Hummocks, has no Church in it, and but two Houlcs.

## The Setts of the Tides fiom the or dinary Obfervations.

The Tide to the North Sea runs round with the Sun, as in the former Account, particularly upon the Broad Fourteens, and falls but a yuarter Tide right with the Coaft Nearer the Coaft of Holland and Zcaland both Flood and Ebb fers more towards the Land; but in the middle of the Tide it fets right along the Coant, and at laft fets to Scaward N W.

You may know upon this Coalt, tho you are out of fight of Land, when you are to the northward or fouthward of the Maes, by the turning about of the Tides, if the Weather is calm: To the fouthward the lide turns abour againt the Sun, but to the northward it turns about with the Suin, till the laft quarter of the Tide, and then it fets towards the Shore.

You have no help at all of the Ebb upon the Coaft of Hol land for turning to Windward towards the Maes, except out of fight of Land; for there runs no Ebb by the Shore, if the Wind be to the fouthward of the $W$.

## Of the Nature and Dejth of the Sboals off of the Coaft of Holland.

Five or fix Leagues N.E. from the Texel lies a Sand they call the Broad fourteens, having a finall Tail rumning N. from the Texel, and N.W. from Vlye to the fouthward; it runs along Shore as far as Ciatuick, and fo on aganit Schevoling ; the W. fide reaching offis 11 to 12 I.s right mito the Sea, from Nort-

Santford is zes from Norrevck, wint spiresucepue. lietle from it fouthward is a very high Beacon on a black Sandhill, which looks like a Stecple. To the northward of Santford you tee Hacrlens Church far wichin the Land, and as over a white Sand !eill: The Church appears in form of a $t$, and has an exceeding high Spure-Steceple upon it: Allo there appears al fimaller spire beyond it to the northward, calld Breekricjer.
> N. R. Againft this Town the Coaft falls in, making a large Bay.

From Santford it is 3 Ls. to Wick, where is a fyuare Tower Stecple. Thwart of IVick, a little to the northward, you lice bevirürk within the Land, a high Spire Steeple. From $11 \% \mathrm{ck}$ is $;$ Ls. to EGmont : here is a large Tower Steeple like a Suil, it appears on a Sand-hill. A little to the fouthward you fee another Egmont within the Land, with two high Stecples on the Abbey, fanding clofe together: Onc has a Spirc on ir, the other not. A little to the northward ftands another Steepie in the fame Town; it flands upon the old Walls, but not to hegh as thole on the Abbey. Thefe are very particular, and therefore cafily known. Alfo between Wick and Egmont you fec Cafiricuin, and leveral other Spire Steeples. Three Ls. to the northward is Petten, a little Steeple; and there you fee within Land two other finall Spire Steeples. A little to the fouthward of Petten is Hombofich; and a League to the fouthward lies Camperdount the N. end of which is very remark. able, being a white ftecp Sand-hill very high and floping, the fouthmoft part grey and rough, and over-grown with Heath or high Wecds. Farther S. lie feveral Hummocks or Sandhulls, whe : fometimes among them is feen a white Spot, by Whoh they are diftinguifh'd. From 'Petten the Land runs out N. by E. to Hugforull + Ls. This is a fhort Point with white Sand-hills on it, running to the fouthward: The biggelt is call'd Kuckerficuin, by the Englifh Sailors Kick 'Down:
calun: T but to th quarter o

You 1 land for of fight Wind bc

Of $t h$

Five ol the Broa Texel, a Shore as fide reacl wick to it and the When yo as you co

To the alfo, thre ne.ar the 1 The Filh to the fo call'd the is the fout of Santfó

The hi bove, as teen ${ }_{5}$ Ls. hills on tl 14 to 15 thwart of Stecples 2

## Sailing Directions for the Channels of the T


thin the Texel, and between that and the Holland's Shore, are threc Channels call'd the Chanuels of the Texel. 1. The Land Deep. 2. The Slenk. 3. The Spaniards Gat.

The Land 'Deep is the caftermoft, and gocs in betweer the Shore of North-Hollund and the Hakes J'hoal or Soutt, Sand, and has ${ }_{4}$ Buoys in it.

If you conic from the fouthward, and would find the Land Deep, take the Soundings of the Shore in $4 \frac{1}{2}$ Fa. and then kecpalong by the Shore, and you will come right with the utmoft Buoy : But be fure you come no nearer the Shore, for fear of the Tail of a Sand call'd Arian Berker's C'reek, which thoots off from it to the touthward of Blenk, by the South Sall libll'; otherwife if you come with an open Wind, keep the great Beacou upon $H$ tud $\sqrt{d}$ ainn over 'Dirckoom's Sand-bill,
and fail $r$ outcrmol

Note, down, or

The fo Grounds, run along lics in N your run
But bo thewart o Shore the fee a Mil Buoy the two Buos
epre A of Sant. d as over a $\dagger$, and here apd Breck-
g a large
c Tower you fee : From ple like a ard you Steeples ire on ir, r Stecple t not to alar, and nont you ee Ls. to you fce $c$ to the he fouthremark. ing, the h Heath or SandSpot, by runs out int with e biggeft 'Dow'n :
caln: To the fouthward the 'lide turns about againtt the Sun, but to the northward it turns abour with the Sun, till the laft quarter of the Tide, and then it fets towards the Shore.

You have no help at all of the Ebb upon the Coaft of HoL land for turning to Windward towards the Maes, except out of fight of Land; for there runs no Ebb by the Shore, if the Wind be to the fouthward of the W.

## Of the Nuture and Depth of the Shoals off of the Coaft of Holland.

Five or fix Leagues N.E. from the Texel lics a Sand they call the Broad fourteens, having a finall'Tail running $N$. from the Texel, and N.W. from Vlye to the fouthward; it runs along Shore as far as Catuick, and to on againt Scheveling; the W. fide reaching off $1_{1}$ to $1_{2}$ Ls. right into the Sea, from Nortwick to Catwick: It has upon tt generally ${ }_{14}$ Fa. Between it and the Land is 18 to 19 Fa . and more northward 20 Fa . When you come over it, about the Texel or the Fly, as foon as you come into 16 or ${ }_{17} \mathrm{Fa}$. you will begin to fee the Land.

To the fouthward there lic off upon the Coaft off Holland alfo, threc fmall Shoals or Sands: They are broad and fhoal near the Land, but grow fharp and deep towards the Ends. The Fifhermen call the firf the Small Eight, it begins a little to the fouthward of Epmont (by the Sea.) The fecond is call'd the Wittertb, and lies thwart of IFick; the third, which is the fouthermoft, is call'd the Hard, a little to the northward of Santford.

The high Stecples on the Coaft of Holland, mention'd above, as Inner Egmont, Wick, Sintford, and others, are teen 5 Ls. from the Land, and long betore you fec the Sandhills on the Shore, that is, upon the S. end of the Fourteens in 14 to 15 Fa . But you fee Camperdran, and the Sand-hills thwart of Hacrlem, before you can fee fome of the Steeples. The Stecples along this Coaft are moft of them flar, like Towers.

## nnels of the Texel, and the Texel Sticam.

Yolland's Is of the
3. The
ween the uth Sand,
the Land and then with the Shore, for $k$, which the South nd, kecp Sand-bill,
and fail right in that way, and you will likewife meet with the outermoft Buoy.

Note, The Beacon is a little to the fouthward of Kirkfdown, only nor to high.

The fecond Buoy lies in $4 \div$ Fa. low Water near the $W^{\circ} \mathrm{efter}$ Grounds, or South Sand; leave it on the Larboard-fide, and run along to the caftward of it between it and the Shore : It lics in N E. and N.E. by N. 'tis all late on either fide, unlefs you run a-lhore.

But be fure to avoid a Shoal lying off from the Shore thwart of Kickfdown; fo you muft edge a little from the Shore there. When you come to the lecond Buoy, you will fee a Mill to the northward of Nickfilown ; and at the third Buoy the Mill and Cane-Nelles Houfe come iato one. Thofe two Buoys lic in 5 Fa at low Water.

## Directions for Sailing on

From the third to the innermof Buny it is N.E. by E. you mult go in clofe along to the eaftward of it, to avoid the laid little Tivil of Sand which lies thwart off from the Shore; and then run within a Bow-fhot about the Heads, and by the Shore of Helder: For to fail from the Helder towards Wieringen Plat, your Courfe is N.E. or a little cafterly, as the Wind and Tide may be, otherwife go by the Texel in 8 to 9 Fa. till Horn comes to the northward of Zuydlaftel, which is a fmall Parcel of Houfes to the northward of the Sconce; but take heed of the Wievingen fide, for tis fo fteep there, that you may have 12 or 13 Fathom at one Caft, and be a-ground before you can heave the Lead again: Therefore when you have Horn and Zuydbaftel in one, keep them fo, and run up to l'ooge! fand; and when Eyerland comes open without the E. Point of the Texel, then you are come the length of the Buoy upon the Burg fand lying on the S. Shore upon a Tail of it; from thence you may fail within it in 5 to 6 Fa .

From the Buoy upon Burg fand to the Beacon upon Voogelfind it is $\mathbf{E}$. by N . and you may make ufe of the above Marks of Horn and Zutydljaftel, till you have the Beacon upon the Te.xel and the Mill of Eafter $P$ Point in one: Then leaving the firft, kecp them in one, and run up to the beacon upon the Ne/s; and fo you will keep the beft of the Channcl, which is 10 to 12 Fa. If the Mill thould be but a litele to the weftward, you will be too clofe to the S. Shore, which is fo fteep that you mult not come ncarer it than 8 or 9 Fa. clpecially in turning to Windward. Being about the Nc/f, go away S. and S. by W. towards the northern Buoy, which lies on a little Flat. If you would go up to Amfferdam, take a Pilot from the North Holland Shore.

The next Channel by the Texel is the Slenk: This lies between the Keyfars Fhit and the South, Sand, and has fix Buoys in it. If you come from Seaward, and would go in at the Slenk, you muft bring the Stecple of Horn, and the Beacon upon the Texel into one, bearing E.N.E. northerly; fail fo nght in with them, and you will go in fight of the outermoft Buoy, which lics from Kickfidocin W.N.W. wefterly, and from the Helder $\mathbf{W}$. If you come from the northward or the weftward, then bring Kickflowin E.S.E. from you, or the great Beacon upon $H_{t y} y / d o w i n$ a litele to the northward of KickJidown, viz. between it and Canc-Nelle's Houfí: Run right in with them, till you bring the Beacon upon the Texel and Horn Stecple into one ; then you have the length of the outmont Buoy, which lies in $4 \frac{1}{2}$ Fa. at high Water, and $2:$ at low Water. Kcep the Scecple and Beacor thus in one ; and as you cannot fail fecing the outmoft Buoy, fo you fhall go on till you pals the third Buoy for they lic all alike, as do the $4^{\text {th }}$ and 5 th. In the Middle of the Fair way, to the fouthward of them, is the decpeit Water: The Shore on that fide is allo very fteep, you will at one Catt of the Lead have 4 Fa, at the next but 2 , but the N . fide is flat going up. The fourth Euoy lics E.N.E. eafterly from the third; the fourth and fifth E . by N ; the fifth and 6 th E. by N. and E.NE. The fecond at low Water lics

## the Cod

${ }_{3} \mathrm{Fa}$ to along by The inna upon the Buoy S.I fron the Tail, an right to
N.B. the and the

When ir, to avo lics off; L.arboard or along Road: ti
If you by the $T$ run alons Helder, Shore of till youl the great N.N.W. and Tid Fa. then Sca. call $W a$, have the nel, wh ward of Flat, no out are a littce Flat. not far, the out ourmoft from yo

To fhot of you will the W. and 13 Ships le Buoy th Buoy ; your St in the $L$

## ing on the Coafts of Holland.

 the laid ore; and the Shore vieringen he Wind 9 Fa . till is a fimall but take that you ound behen you ad run up put the E. the Buoy a Tail ofin Voggelve Marks upon the caving the upon the which is weftward, ftecp that $y$ in turn'ay S. and little Flat. the Nortb
is lics befix Buoys in at the he Beacon ly ; fail fo outermoft and from : the weftgreat Beadowu, viz. ith them, ceple into y, which Kcep the fail fecing the third 1. In the om, is the ftecp, you out 2 , but ics E.N.E. ; the fifth Vatcr lics roft lic at

3 Fa. to ${ }_{3}$ Foot: but the E. Shore is llat, and you may run along by it with your Lead, till you come within the fix Buoys, The innermoft Buoy of the Slenk makes the feventh, and lies upon the Tail of the Keyrars lilat: this lies trom the fixth Buoy S.W. but the Helder S.E. There's no danger if you go from the fixth Buoy to the Hilder, or to the Buoy upon the Tail, and fo along the S. Shore, which is allo very fteep, or right to the Hilder', as the Wind and Tide gives leave.
N.B. The firft of the Flood runs very ftrong N.N E. over the S. Ground to the Spaniards Chanizch, till half Flood; and the Ebb S.S E. till half Ebb. The Helder lies from the Buoy upon the Tail E.S.E. or S.E by E.

When you are come up near the Helder, run clofe along by it, to avoid a Tail which ftretches out from the Geeft Sirud, and lics off; and you mult leave the Buoy which is upon it on your Larboard fide. Being palt the H.L/tr, go away N.E. catterls, or along by the Texiel in 8 to 9 Fa . into the Capereaders Road: then take the Directions of your lilot, as above.

If you wouid lail from the Capeveaders Road out to Sea by the Te.xel, you mult feer S.W. wefterly to the Helder, or run along by the Tewel in 9 to 10 Fa , till you come near the Helder, and then out again N.W. by W. and W.N.W. cloleby the Shore of the Helder, and to by litrle and little more northerly, till you bring the two Beacons of Huv/dowiu into one, or chat the greateft come to the weftward ot the leaft: Then run out N.N.W. a little northerly, or wefterly, according as the Wind and Tides thall be, till you come agaiuft the $N$ Shore in 5 to 6 Fa. then run boldly along by the Shore, till youarc.clear out at Sca. Note, when the Steeple of St. Yobnis, which the Sailors call Wambus, bears N.E. from you a litele cafterly, then you have the length of the innermoft Buoy of the Spanith Channel, which you will lec on your Larboard-fide. To the northward of it lie four other Buoys all along by the fide of Keyfars Flat, near N. by W. a little northerly ; all which in failing out are left on the Larboard-fide. The ourmoft Buoy lies N. a little wefterly from the fifth upon the Point of the Keyfars Flat. You may go a little way to the weftward of it, but not far, for the Kieyfars Flat on the E. fide is very fteep to the outmoft Point of it. When you are thwart of the faid outmoft Buoy, then the Church at Coog lies E.N.E. catterly from you, and the two Beacons upon Huydown are in one.

To go out at the Laud Deep, you muft keep within Bowfhot of the Shore of Huyddowin, and about by the Heads, and you will not fail to find the innermot Buov, which lies near the W. Shore in the thoaleft part, being ${ }_{1} 7$ foot ar high Water, and 13 at low Water. The Shoal is but narrow, about two Ships length; and within it is depth enough. Thwart of the Buoy there is a Tail of Sand runs off from the Shore to the Buoy ; therefore you muft run clote by the Buny, leaving it on your Starboard-fide. Befides this. there are three other Bueys in the Land 'Decp, which in dailing out you muft leave to icaward, and go between them and the Shore. When you are

Thoy, which lies trom Kukdosin W.N.W. wetterly, and from the lheder W. It you come from the northward or the weftward, then bring kickilown E. Sid. from you, or the great Bea-
 between it and Cane-Nelle's Houfi': Run right in with them, till you bring the Beacon upon the Tixel and Hor" Stecple into one ; then you have the lengeth of the outmoft Buoy, which lies in $4 \div$ Fa. at high Water, and $2:$ at low Water. Kecp the Steeple and Beacon thus in one ; and as you cannot fail lecing the outmont Buoy, fo you fhall go on till you pals the third Booy. for they lie all alike, as do the $4^{\text {th }}$ and 5 th. In the Middle of the Fair way, to the fouthward of them, is the decpelt Water: The Shore on that fide is allo very fteep, you will at one Cast of the lead have ${ }_{4}$ lia, at the next but 2 , but the N. fide is flat going up. The fourth Buoy lics E.N.E. eafterly from the third; the fourth and fifth E. by $N$; the filth and $\sigma$ th E. by N. and E N E. The fecond at low Water lics at 20 to 21 Hoot at the fhoaleft of the Slumk; the reft lie at ${ }_{4}$ Fa, in low Water; and the fixth and laft in ; Fa. upon the Joint of the Tail of the Kisfars lilat. Notc'. You mult not go to the northward of the Slenk, but leave it on your Larboard fide: And you muft reckon your Tides very well; for in the Slemk the firt of the Flood fets N.N E. on the S Grounds till half Hood, and the Ebb S.S.E. until half Ebb. When you are within the lalt Buoy, i: is wide, and you may go from thenec right to the Helder S.S E. and to upwards, as by the Marks for the Land T)eep; for here the two Channels neet.

The third Channel is call'd the Spaniards Giat, and there are fix Buoys in it: This lies betwixt the Texel and the Sand call'd the Keyfars Flat. To come into this from the North Sea, you muft bring the two Beacons of Huy/dow' $\mu$ into one, or the biggeft, which is the fouthermoft, a little to the caftward of the other; then they will bear S.S.E. from you. Kecping them to, go right int with them, and you will come in fight of the outmoft Buny; and then Coog Cluurch will bear E.N.E. from you: But if you come in from the fouthward or weftward, youmult bring it no farther N. than E.N.E. but rather eafterly, and then fail right in till the Beacons come together; otherwife you will be too near Keyfars Flat, which is on the $N$. fide and very itcep. You muft alfo be fure to go to the weflward of the ourmof, Buoy, there it is broadeft.

From the outmoft Buoy to the fecond the Courte is S.S.W. From thence by all the reft to the fixth it is S. by W. and S. cafrerly. The fixth Buoy is call'd the Buoy of the Beacon and Stereple. becaule it lies right with Horn Stecple and the Beacon upou the Tevel. All the Buoys lic on the W. Shore in a Line : You may for need go to the weltward of them, but not far ; for the Shore is to ftecp, that in a Ship's Iength you come from
out ar a little filat. not far the ou outmo from y

To fhot of you w the W and 13 Ships Buoy Buoy ; your S in the ward, pult th where

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Keep the t fail lecing s the third h. In the cm , is the ftecp, you but 2, but lics E.N.E. J ; the fifth Water lics reft lic at . upon the ou mult not your LarWell ; for S. Grounds When you y go from , as by the nels niect. id there are d the Sand the North 1 into onc, o the caftfrom you. will come lourch will the fouthhan E.N.E. ic Bcacons y far's Flat, alfo be fure is broadeft. $\dot{c}$ is S.S.W. and S. cafBeacon and the Beacon in a Line : t not far ; comc from
out are left on the Larboard-fide. The outmoft Buoy lies $N$. a little wefterly from the fifth upon the Point of the Keygirs Flat. You may go a little way to the weftward of ir, but not far, for the Kevfars Flat on the E. fide is very fteep to the outmoft Point of it. When you are thware of the faid outmoft Buoy, then the Chureh at Coog lies E.N.E. catterly from you, and the two Beacons upon Huydown are in one.

To go out at the Land Deep, you muft keep within Bowthot of the Shore of Hisy/down, and about by the Heads, and you will not tail to ind the innermoft Buov, which lies near the $W$. Shore in the thoaleft part, being 17 foot at high Water, and 13 at low Water. The Shoal is but narrow, about two Ships length; and within it is depth enough. Thwart of the Bung there is a Tail of Sand runs off from the Shore to the Buoy ; thercfore you mult fun clofe by the Buny, leaving is on your Starboard-fide. Befides this, there are three other Buoys in the Land Tocp, which in tailing our you muft leave to teaward, and go between them and the Shore. When you are paft the outmoft, you are clear of the Shoals, and may go where you pleafe.

To go out of the Slenk you muft run along to the fouth.. ward of the inncrmoft Buoy on the S.E. of the Key/ar:s Flat, leaving it on your Starboard-fide: Then run out $W$. and W. by S. to the fecond and third Buoy, and from the third to the fourth and fifth, W.S.W. The outmoft lies more foutherly.

## The Setts of the Tides.

Upon the Wieringen Flat, a S.E. Moon makes a full Sea.
In Capevearders Road, an E.S.E. Moon.
Without the Grounds, or Shoals of the Texel, an E. Moon. In the Entrance of the Texel, an E. by S. Moon.
The Flood makes a good while louger in, and the Ebb longer out.

It begins to flow without and on the Shoals at a S. Moon, a little to the weftward.

The firft of the Flood and the after Ebb fets out of the Texel N.N.E. thwart over the Grounds and Channels, and right out at the Spaniards Channel, till Flood. On the contrary, the firft of the Ebb with the after Flood fets right in at the Spaniards Channel S.S.E. over the S. Grounds, and thwart over the Slenk and other Channels, rill half Ebb.

A little before half flood it begins to run right in at thefe Channels, and a litelc before half Ebb it fers right out.
N. B. It is of great Concern to keep an exact Reckoning of the Tides in failing into thefe Chamels, either invard or outward.

## Directions for Sailing on

## Sailing Directions for the Zuyder or South-

 Channcl of F you are going to Sca from Amfirdam, with any Veffel drawing 10 Foot or more, you mult kcep the Midaide of the Chamed in failing to Tjoort, and thance oucr the Pampers: Then kecp Marken Church wethout the Land of $\vec{a} d a m$, till the Stecple of Zuratacum comes paft konneborbent, which are the Houlcs betwixt Sclythoocks Harbour, '(that is, Odam) and Wengerdan: Run in then E. towards Land, till the now Church of shofsidan come about ' 1 Durgerdam; keep it to t:ll the Church of $/ /$ ec/p comes behind the Caftle at Muyden. rather nearer the Church than the Cattle. Keep IV effif fo, till Fiden come whthout the L. cud of Marken. In this Fair way you have one Foot more Water than if you fal'd thro'.

To avon the Sand of Mayden, bring the Houlcs of Tyoort to the touthward of Hesligher-flec at Amperdam, they are sood long Marks. When Monnik dam is at the W. of the Schacducks Harbour, and the Houlc at Muyden between Wre $/ p$ and the Church of Muyden, then are you thwart of Murden Sand: And to kecp the Stecple of "Dicmen over the Point of Trion't, as long as you cantec it, is the long Mark to bal over the P'ampus.

When you are chwart the E. cod of Marken, fail then N E. cafterly towards the Fall of O ork, diftance 7 Ls. Within I I . of "rik is a hard Sand called Houtrib, lying thwart orer the Fuer way S.E and N.W. There is no more Water there than upon the Flat of 11 zorengen oft of fincfland, or than right tho' When Einchuy in is N.W. and N.W. by W. from you, then you ar. upon the Houtrib. You may tee the Light upon Che before you come againf the Sand. When ever ひ̈rk, or the I.ifht upontr, bears more northerly than N E. fiom you, and yon have got Shoalings, 'tis corainly on the Fouttió ; and kecpung io, you will avoid the Euchuyje: Sand.

When you come from the fouthward, you are not near the Livchuy Sand, before the Church upoa Vrk come without the lutte Village there ; and then Orek is E. by S. and E.S.E. from you. It thon you go away N.W. by W. or W.N.W. you will rua clofe by the fide of the Sand; and if you bring the Church upon 'U'k to bear S.S.E. from your thro' the Houles, then you may go boldly. on N.W. by W. or keep Medrablick upon the Pome of the $l^{\circ} \mathrm{c}$, and mect with neither Sand or Shoal. Likewite coming from the northwards, bring Ork not more calterly than E.S.E. from you, and you thall avoid En(bivyous Suld.

To the middle between the Buoys of the Cripple and the /iofitide the Courle is N.W. by W. from Urk: With that Comfe you may rmin to the fouthmoft Buoy upon $W$ 'ier-

## der or South－Sca，the Fly and Fly Stream，and the Channel of Amcland．

dam，with any you mult kcep ；to Tjoort，and kcep Marken till the Stecple Which are the is，Cdam and d，till the new am；kecp it to altic at Muyden， ep $W$ co／p to，till In this Fair way l＇d thro＇．
foules of Tyoort rdam，they are the W．of the Miyde＇l between c you thware of ）icmen over the $s$ the long Mark

4 ，fail then N E． s．Within， L ． thwart orar the Water there than d，or thian right W．from you， ethe Light upon a cucr ©urk，o＂ NE．fom you， on the Hostlide； salld．
ire not near the $k$ come without by S．and E．S．E． or W．N．W．you if you bring the hro＇the Houles， kcep Mlederblick neither Sand or $s$ ，bring Wrk not thall avoid En．

Cripple ond the n Ork：With uoy upon Wher

From the Buoy on the Cregl to the Buoy on the Frees Plat the Courte is NE．When the Stecple of 7 Wijch comes a little to the northward of Midithteck，keep them io as long as you can lee them，and you＇ll find no Shoal between the \％lat and the Ciogl；but between the Buoy on the Cregl and that on the Fiese I＇lat on the W．Shore along the Reach，lies a hard Sand call＇d Tionick S＇and，which you may be foul of if you go too lar over to the woftward．

When you are about the Crest，go away N．by E．（if you draw but little Water）over the Broad Sand，right to the Buoy upon W＇efl H＇crcum Sand；but with large Voffels kecp the Fair way．To find the deepeft part of the $F \%$ ，bring P Pud）a－ \＆ct，a litele dipuare Stecple which is to the weltward of $/ /$ or－ cum，to the weftward of a little Village which is alfo to the weftward of $/$ Formm ；and tail fo with $n$ ，and you will run right with the Buoy upon the I＇rees Plat：And when Fowis and Mornes come into one to the northward of Statcon， you have the lenget of the Buoy on the W．fide of the＇plat： Then run along to the weltward of it，becaule there the Water is decpett When you come to the northward，you may so whin the Cres P＇lat Buoy on the E．Shore．

When you are palt the lirees Plat Buoy，go on N．N．E．till Pembagen come between the litele Village and Voor Wolde： It then the Chif hes thro＇Stareren，you are in the decpett Water．Then run a little more northerly to the Buoy in the Bietst or Bocht，which lics in 16 Foot in the Fair way，and go a little to the weftward of it；but to the caftward of it，is decpeft；and the farther in towards fricjlasd，the decper． The Maris of the Buoy on the Bught is the litele lyuare Stecple of Mornes to the fouthward of Malgueren；bring ehe Stceple to bear wiblum $A$ algatere，and keep it to till you come in the Fair way of the Buoy of $/ \mathrm{l}^{\circ} \mathrm{f} / \mathrm{I} / \mathrm{I}^{\prime}$ ercum．N＇ote，This is a gool Mark whon the Buoys are taken away．The old thwart Maiks of this Buoy on the Bight，are Mirnes，Mal－ queren，Himelum，or Mintopen，and a little long Village ： When they fladed four Parts between the Buoys on the Bight and on the firees＇d＇lat，it is the fhoalett of the Flat；when the former is on your Broadfide，then go on N．by W．wefter－
 16 Foot Water，口pon thete Marks，ごふ，a little Spire－Sterple call＇d Harmb，fur within the I and，coming over a little Vil－ lage on the N of Hinlopen calld De＂tyatek，the depth thwatt of it is 3 la

The old Marks are two Villages near Mackum ar the Water－ fide，and NE．from it ；and to bring theie a little from one another，and wo intele Steeples to the northward of Botiait，
and youlhave got Shoalings, 'tis certainly on the Houttiof and kecpung fo, you will avoid the Enchuy/in Sand.

When you come from the fouthward, you are not near the Fichuy fin Sald, before the Church upon Wrk come without the lietie Village there ; and then $\mathrm{O} r \mathrm{rk}$ is E. by S. and E.S.E. from you. It then you go away N.W. by W. or W.N.W. you Will ruan clofe by thic fide of the Sand; and if you bring the Church upon 'Clik to bear S.S.E. from you thro' the Houles, then you may go boldly on N.W. by W. or keep Mederablick upon the loint of the $I c m$, and meet with neither Sand or Shoal. Likewife coming from the northwards, bring Wre not more calterly than E.S.E. from you, and you hall avoid Ens. - buy/ias Sand.

To the middle between the Buoys of the Cripple and the linfitcto the Courlic is N.W. by W. from Ork: With thit Couff you may run in to the fouthmoft Buoy upon $W$ Wir-
 awblic: a little within the Point of the Vor: But when it is without, you are in the Fair way. There lies a little Flat of hard Sand between Ork and the Buoy upon Hot: fide NE. calterly from the Stceple of Euchuyfen; it lies towards the end of the Enchuyen Sand, where it is not decerer than upon the frees Flat. The Way by the W. of it is calld the Catesat; and by that way you will be the fooner clear of the Laibus fen Sand or High Horn. But to the eaftward is the decpeft Water, the other therefore is for Veffels that daw but lite Water.

The Spre-Stecple of Cirootibrocek and Hem brought one againt the other, are the thwart Marks of the Buoys of the Criffer and Mofftede; allo W'ainis, a low SpireStecpic in Finellund bronght to the S. fide of the Cliff of Stovicin. Thei you have the Iength of thote Buoys which lic in ;Fa. Water, one on the E. upon the Tail of Hofitecte, Whe other on the Tail of the Cripple, on the W. Shore mate Fair way, 2 Foot Icts than 5 Fa, foft Ground. When the Stecple of Medinbleck comes to the broad part of the Houle of Medableck, then you are paft the Cripple Sand; then go N.W and NW. by N. to the Buoy of the Cresl, as Wind and Tude may be: The Fair way there is fearce ${ }_{5}$ Fa.

Thwart of the ciesl, a little within it on the N. Shore, and towards the Buoy upon the liofftede, lies a hard Sand or Bank calld the South C'egh, on which is but 2Fa. at low Water ; but between that and the N. Shore it is 3 Fa. and foft Ground; and to the fouthward or woftward of it 'tis + 'Fa. When a hetic fubare Stecple calld Mirnes in Friefland comes over a long Countiy Houte to the fouthward of the Clifl of Stazerl, then you are thwart this Bank. The Marks of the Buoy upon the Ciesl is the Spire-Stecple over the Corn-mill to the weftward of Medinbieck; and the litele fipuare Stecple of Matus to the S.E. Fide of tice Cliff is the right Fair way, there is $+\frac{2}{3}$ to 5 Fa. fott Ground; the Buoy lies in + Fa. ii need be, you may run a Cable's lougth to the caftwart of is
the Houttiv; and.
e not near the come without y S. and E.S.E or W.N.W. you you bring the o' the Houles, ecp Mideriblick. either Sund or bring Wrk not thall avoid En.
ripple and the Ork: With oy upon $W i c r-$ ieringen or $M c^{-}$ But when it is iics a little Flat y upon Hof: uy fen; it lics here it is not by the W. of it Il be the fooner But to the caftc is for Veffc l
brought onc athe Buoys of a low Spircof the Cliff of 3uoys which lic ail of Hofitede, the W. Shore iround. When ad part of the Cripple Sand; of the Creyl, as is fearce 5 ta.
c N. Shorc, and rd Sand or Bank at low Water ; ad foft Ground ;
$\therefore$ Fa. When a comes over a Cliff of Stavim, of the Buoy up-form-mill to the bare Stecple of right Fairway, ics in + Fal. if he caltward of

Stecple to bear withen Alabutor, and keep it to till you come in the fair way of the Buoy of $1 /{ }^{\circ} \mathrm{gl} /{ }^{\prime \prime}$ "iramm. Note, This is a good Mark when the Buoys are taken away. The old thwat Marks of this Buoy on the Bight, are Mirnes, Malgutron, Mimetum, or Minlopen, and a little long Village : When they \{lasd infour Parts between the Buoys on the Bighe and on the firess 'd'lat, it is the fhoaleft of the flat; when the former is on your Broadfude, thengo on N. by W. wefterly to the Buoy of $\|^{\circ} \mathrm{fl} W^{\prime}$ orcum, which is on the E. Shore in 16 Foot Water, upon thefe Marks, $2 \boldsymbol{i}$ a a little Spire-Stecple calld Hawh, far within the land, coming over a little Vil-
 of it is : la

The old Marks are two Villages near Mackum at the Waterfude, and N E. from it; and to bring theie a little from one another, and wo hetle Steeples to the northward of Bolionat, as near tozether as the other are alimder: One is call'd ldfegabuv/ch.

The thwat Marks are, to bring a high Houte on the E. end of Coudem near to the S. cond ot Mialopen : From thence to the Buoy upon Zathorek the Courle is N. The Marks are, alittle Sprestecple with the fint long Village to the northward of /f encam calld Geeft: When thar Stceple comes :n the imnermolt Swamp of the long Villare, then you are thwart the Buoy:

The longell Marks are, the Spire Stecple of 'Tpugem over the fyuare Stecple of Cobrensärri at the Wator-fide, and Pendiagen over the hete Houte to the northward of the Village with the Swamp; or when the Mill of Stavera comes between the Town and the Block-houte. Thele are all good Iongt Marks of the Bwoy Thalloock. From thence to the madic (iround the Comite is $N$ the depth of the middle Ground - Fa m the Far way : Between /forcum and Y,belboeck it is +tal fott Ground; the E. Shore is that, and the W. Shore itecp.

The Buoy of the middle Ground lies upon thote Marks; the two Spare-Stecples Arund and 1 Pinom brought into one about N.E. from you, or Bolfiourt right with Matklam; good thwart Marks.

The longell Marks are 人゙ing/aiart (which is alto calld the Runucr) boought behind the Church ot Siurte, which is near the Water-fide, upon a Pont that rums out about $N$ i.. by $N$. from the Buoy; then you are right in the fair way: Or when the Tower-Steepte of $1 /$ ynum to the nothward of Harlinsen comes between Midlum and the E. cad ot Marlinse\%, then you are right with the Buoy of the maddle Ground, and are nearefl to that wheh Ityatm is neareft to. The W. Shore is flecp, the E. Shore a little flat; youmay rum over it in ${ }_{3}$ Fa. and come into s Fu. towards firchend. From the modde Ground outwards to the $F \%$ there are no l'als of Sand on the Weft Shore.

Being then paft the Buoy on the middle Ground, go on N.N W. to the Buoy upon Suiant (ably, which lees on the E. Shore

## Directions for Sailing on the Coafts of

Shore in; $\mathrm{Fs}^{2}$ The thwart Marks are Bol/wacrt over a little low Houle to the fouthward of Cooreniwaert. When you go over between the Buoy on the middle Ground and Swancbalgh on the E . Shore, ftand no farther cafterly than into 3 Fa and then you will come again into 4 to 5 Fa . You might, outward bound, fal behind the Shoals of Swanebalgh, or homeward bound, behind the Shoals of the middle Ground. On the W. Shore you will find ${ }_{4}$ Fa. or ${ }_{3} \frac{1}{5}$ over-againtt the Buoy upon Süancbaigh, and good Ground to anchor in.
From shis Buoy to the Buoy upon Sclonytefand the Courfe is N.W. northerly: the thwart Mark is IV inaem, brought over the higheft part of Harlingen : the longeft Mark is Bolfwaert, brought to the Northwards of the Stuys, which lieth to the Northwards of Woens. This Buoy lies to the northward on the E. Shore in 6 Fa. upon a Tail or Point; outward bound you may lail within it, and have 7 to 8 Fa. and you may kcep along the Weft Shore in 4 Fa. indifferent flat, the Eaft Shore ftecp; bur a litele without the Buoy 'ris flat as far as Keefhoeck, and you may found it all along to the $S$ liot. You may alfo go within the Weft Shore over againft Sclonteffand, or to the Southward of it, in $3^{\text {Fa }}$ to $3^{\frac{1}{2}}$ into a dead Swatch behind the Tail of Sand called the Point of 1 acret ; and kecping in ${ }_{4}$ Fa. on the Weft Shore, you go clear of it: This is in failing up. Alfo if you go up with the firf of the Flood, keep the E Shore, to avoid being driven into a dead Swatch behind the l'acert before you are aware. There is a Beacon upon the Point of the W'acrt, and to the Northward and Weftward two more, called the Beacons of Clacfiomen ; and to the Southward of the Wacte is a Beacon upon Dominicus Plat, which the Pilots call Myn/en Plat.
The Marks for this long Paffage are Mackium, brought to a Mill at the Water-fide, and a Village called Idfegionyyen, with a litele Tower Steeple to the Sourhward of Mackum, When Pendrage comes between Mackun and the Village, you go clear of the faid Tail or dead Swatch; but if it come ncareft to Nackum, then you are too much upon the E. Shore.

From Scryytefand to the Buoy upon K'eefhorck, you mult go W.N.W. or N.W. by W. as the Wind and Tide may be: For the Tude in this long Palfige runs little more than half Tides, which you mult well oblerve along the Deep. The laft half of the Flood, and the firlt half of the Ebb fets over to the WeftWard; and the firft half of the Flood and the laft talf of the Lbb to the Eaftward.

The Marks of the Buoy upon Kef/hocck are, Praniker Stecple between the Mill and the Town of Herlingen, or to the Maftheads of the Ships in the Harbour: This Buoy is on the Eaft Shore. The Fair Way, and thwart it, is 8 to $1 \circ$ Fa. Between it and Schytefand, or between the Beacons of Claefioo$m e n$ and the Point of the $W$ Vacrt, there is almoft in the middle of the Fair Way a little narrow Plat, which lies along the Reach nearcft the Wctl Shore; it has $3^{\text {t }}$ :o 4 Fa and you may be over it in two or three Cafts of the Lead.

Weftward from Keefhoeck lies the old Fly, firft S.S.W. then S.W. to the Buoy on the Nefs in the Tcxel Stream. The laft half of the Flood and the firft half of the Ebb fets very flrong

The Ifland o To the Wcitwa the E. cnd are 1 is a Chierch, w and there fhoot Weftward of Eycrland, callc is for fimall Vef Water. At the arc Marks to al E. and of Fly der.
Schilling lics two Churches Ied Branduries, Spirc Stecple ca the E . lics fome Light-houle, anc for the E. Cham

To fail into tclmeck, bring t houfes together, and you come outmoft long Ba coming from tho fall in with the run over the en but not far to th to the weftward out S. near the twecn this Tail to the Eaftward the end of tho thought theme run into the laid if they have til uulet's they com come from the 4 light, you will and neas Storte nearcr the Shore Buoy. Within S onc: Going in the white one or Icaving all the o Gettiug, and til out, kecp a litt againft the firlt
The lecond 11 Foor; upon Depth, but a lif
The chird. c

## n

atle

The Illand of Fly is 3 Ls. long, and very caly to be known: To the Weitward it is full of little low Hummocks, and upon the E. end are feveral high white Sandhills. At the Welt end is a Cherch, with a Mill to the Eaftward of it; from the end there flooots off a Rift a good way into the Sca; and to the Weftward of the Rift gocs a Chanacl between $F: \%$ land and Eyerland, called the W'gltergat, or Weffichld Dec's: But this is for fimall Veffels only, there not being above s to 10 Foor Watcr. At the E. end is a Mill wich a Cape or Beacon, which are Marks to avoid the Grounde before the Fily. Note, The E. cud of Flycland and the W. cud of Tcxel lic ${ }_{3}$ Ls. afunder.
Schilling lics E. from the F/3; and is about 3 Ls. long, with two Churches upon it. At thic W. end is a high Tower calIed Brandaries, with a Mill by it. Abour the middle is a Spire Stecple called Midlands, and the Hoorn is a Mill. As the E. lics fome little Hills or Downs; at the W. cod is a Light-houfe, and two Capes or Beacons : The bigyeft is a Mark for the E. Channel, and the leaft for the W.

## Stortelineck Cjomnel.

To fail into the Channcl of the Fly, which fome call Stortelmeck, bring the Beacon at the end of the Fily and the Lighehoufes together,bcaring from you S S E. cafterly: kcep them fo, and you come right with the firt Buoy lying in ; Fa. on the outmoft long Bank: This Bunk on the North fide is flat, io that coming from the North, and kecping in 5 or 6 Fath. you will fall in with the ourmoft Buoy. If you are put to it. you may run over the cad of the Lony Bank in, Fa. rowards the Shore, but not far to the Eaftward of the Iccond Buoy, for a good way to the weft ward there is a Point ot a finall Tail et Sand ruas righe our S. near the Buoy; on it there is but it Foot Water: Between this Tail and the long Bank, hes a Siwatco in the Ground to the Eaftward, where is 5 Fa. Water. Some comme over the end of the Long Bank, and finding deep Water, have thought themidves in the Stortelombeck; and to lufing, have run moto the faid Cloop or Swatch betwcen the two Tails: But if they have the Wind Weftetly, they are in great dinger, uulet's they come abour, and run out as they come in. If you come from the $W$. along by the Fly in 4 to 5 ta. and by Daylight, you will not fail to tee the outmolt Buy if in the Nught, and ncait Stortelmbeck, bring the Light-houtes S.S. E. and run to nearcr the Shore, and then yougo to the weftward of the outmont Buoy. Within Stortclmbeck there lie 9 black Buovs and a whe onc: Going in, you leive all the black on the Larboard fide, the white oncon the Starboard, and run along to the Southward, Icaving all the other white Buoys both in Booms: Chainhet, the Yottiug, and the Fly Streams, on the fame fide. In coming out, kecp a little off from the Shore, for there is a Shoal right againft the firlt Buoy of the feven.

The fecond Buoy. called the cutmoft Troos Trie, hes in ${ }_{11}$ Foor; upon the thoaleft of the Channel S. there is the tame Depth, but a little farther is 16 Foot.

The chird. called 1 ther moft (7) roon 7 Dric, lies in 16 Foot in

The Marks of the Buoy upon Kec/loock are, Franiker Stecple between the Mill and the Town of Marlinsen, or to the Maftheads of the Ships in the Harbour: This Buoy is on the Eaft Shore. The Fair Way, and thwart it, is 8 to 10 Fa. Berween it and Schytefand, or between ihe Beacons of Claf fromen and the Point of the $/$ acert, there is almon in the middle of the Fair Way a litele narrow Plat, which lics along the Reach neareft the Welt Shore; it has $3^{\frac{1}{2}}$ to + Fa. and you may be over it in two or three Calts of the Lead.

Weftward from Keefloceck lics the old Fly, firft S.S.W. then S.W. to the Buoy on the Nefs in the Texel Stream. The latt half of the Flood and the firft half of the Ebb fets very ftrong into this Channel. In going up you may go within the Buoy in + Fa. the Marks are, the Steeple of Franiker brought to the Southward of the Stecple of Kar/misen; then go outward orer the Schucring fbals; the W. fide is fteep, 8 Fa. clote to the Shore. In the Fair Way, between the Buoys, and thwart the Buoy upon the Elbow, is 10 to :1 Fa.

From Kee/bock to Woolfhoeck yougo firt N.W. thenW.N.W. to the Buoy between them, calld the schor Tiun, or the Buoy on the Eilboer ; and from thence to Buoy upon Foolhoce $k$ N. fomewhat Eafterly: it lies in ${ }_{4} \mathrm{Fa}$ on the E. Shore. From thence to the Buoy upon Schacring/hals your Courfe is N.N.W. and N.W. by N. according as the Wind and Tides are To the N.E. of the Buoy upon IVoollhoock, is a broad Bight reachm: S.E. far into the Grounds, called the Infichot ; there is 7 Fa. at the going in. The firft of the Flood lets from Schurouethials very ftrong in there. (On the contrary, the firt thoot of the Ebb runs very ftrong out of it upon the Tail of Schuevin!thats, and has cauted many Ships to be loit. This Tail thoors off from the W. Shore, there is a white Buoy upon it in $;$ to +Fa . Comng from withour, you may go with in it in 6 Fa the right depth between Wool/hoeck and Sclsiering /bals in 9 Fa .

From Schiering thals to Longfand is N.W. and N.W. by N. berween them both on the $W$. Shore is thoal Water; this is the beft Road in all Fly Straam, and there rums but liteld Tide; in the Fair Way you have 8 to io Fa. In turning up, you may go within the Longfand Buoy upon the E. Shore, kecping in 7 to 8 Fa and then you will not be too near cither the S'bloicring that's or the Longfand. When the Eaftermot Houle upon the Grind comes a lietle to the Northward of the Weftermon, you bave then the length of the Buoy upon Loug fant. From Long fand to the Slaot you go N.N.W. and in the Fair Way there is 'io Fa. or you may run along by the Beacons upon Cidkefiend, till you come into the Sloo.'
(1) the Eatt the cnd o thought th run into th if they ha uulets they come from light, you and near $S$ nearcr the Buoy. Wit onc: Goit the white 0 Icaving all Jetting, a out, kecp againft the

The fec if Foot; Depth, bu

The thit the Fair w:

The fou this is 5 F the Strallu, which you white Buoy N.E from

The stl
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The 7 tl
Berwect Sand from it reaches the Wall, innermoft ward of t

The $E$ Ground, Schelling the Shore length lor Strand 7 to 2 Fa . were laic but there the E. an from you
arction th the Eatward, whete is 5 fa. Water. Some comine over the end of the Loig Bank, and finding deep Water, have thought themelves in the Stortclimbeck; and to lufiing, have run into the laid Cloop or Swatch between the two Tauls: But if they have the Wind Wefte:ly, they are in great danger, unlets they come about, and run out as they come in. If you come fron the W. along by the Fly in 4 to 5 ta. and by Daylight, you will not fail to lee the ourmoft Buay if in the Night, and near Stortelmbeck, bring the Light-loutes S.S.E. and run fo nearer the Shore, and then you go to the weftward of the ourmoft Buoy. Within Stortclmbeck there lie 7 black Buoys and a white one: Going in, you leave all the black on the Larboard fide, the white one on the Starboard, and run along to the Southward, Icaving all the other white Buoys both in Booms. Chanitul, the Jetting, and the Fly Sercams, on the fame fide. In coming out, kecp a little off from the Shore, for there is a Shoal right againtt the firf Buoy of the feven.

The fecond Buoy. called the outmoft Droon Drie, hes in
N. then The lalt y ftrong he Buoy ught to outward fe to the wart the
W.N.W. he Buoy ool/hocis

From N.N.W. To the reaching ${ }_{7} \mathrm{Fa} \mathrm{ac}$ li!g/hals t of the in: hals, hoots off ${ }^{10}+\mathrm{Fa}$ the right
by :cr ; this bus lituld rining up, E. Shore, ear either saflermot ard of the on Loug. nd in the c Beacons

II Foot; upon the thoalelt of the Channel S. there is the tame Depth, but a litele farther is 16 Foot.

The third, called Innermoft Troog Dric, lies in 16 Foot in the Fair way: between both is 3 Fa .

The fourth is called Heyckboeck: Between the 3 Buoys and this is 5 Fa. Over-againit this Buoy lies the whute Buoy on the Strand; near it runs a little Tail of a Saud from the Shore, which you may run over. When you are going our to this white Buoy, which is the third from withour, it flretches $N$. N.E from the $4^{\text {th }}$ to the $5^{\text {th }}$ almolt Eaft

The sth Buoy is called the Outmoft Corner Buoy.
The 6th the Middlemoft Conner Buoy.
The 7th the Inmoft Corner Buoy.
Between the outmoft and middlemoft there runs a Tail of Sand from the Shore, which you may fail over from without; it reaches almoft to the Buoy ; there the Stream breaks thro' the Wall, and icours the Tail over to the N. Shore. From the innermoft Buoy, run along by the Serand of the Fly, or Southward of the Buoy upon the Plat.

## Eafter Booms-Gat.

The Eafler Boom-Gat is very much alter'd. The Schowr Ground, or Petcr's Ground, is grown near the Strand of the Schelling: Betore it lies a Sand, between Peters-Gronid and the Shore; it is about half a Ship's length broad, and two Ships length long: it has 5 or 6 Foor Water, and berween it and the Strand 7 to s Foot, bur between it and the Schorr 11 Foot to 2 Fa. Grcat Ships might eafily go in or out here, if a Buoy were laid on the Point of the Schorr to thew the Eutrance; but there being no tuch Marks, 'tis dangerous Commy, from the E. and having Mid-Land Church upon the Schelint E.S.E. from you, then you are near this Sand.

## Diretions for Sailing on the Coafts of Ho

Wigh reom Gat or Cbannol.

To go into this Chanucl coming from the W. bring the Beacon of Rrazaia ics on the $W$. and of the lland of Scbelling, and the Tower there, both in onc, E. and E. by S from you, keep them fo, and run by the outmoft Buoy in 6 Fa . till you come to the fecond Buny: Then bring the Tower a hetle to the Southward of the Beacon, and then you will run betwecn a white and black Buof, where is 17 Foot at low Water in the thoalet. From thence in 6 or 7 Fa you are in the War W'ay of the Boom Comine!; the N. fide is the decpeft, but the Channal is to broad and fair, that you may turn it up; and if it be calm, the Curent will fet you right in of it icif.
'To lail into the \%etains thro' the Robogagat near the Rofine Plat, you muft run tow ards the Buoy of the Loms Sand between the black and white Buoy, leasing the black on the Larboard, till you come to the Beacons on the Nakens; you whil fee flamly from Buy to Buoy: then go out along by the fad Beacons ES.E. till Braudaries comes near to the Gried, tho not right with it: kcep them there, and run on Southwards to the firf Buoy on the Tail of Hendrick Yuerts. P'at: then leaving them on the Larboard-fide, run on S.S.E. to the laft Buoy, which lics on the South Point of the Plat.

Over againft thofe Beacons on the Nelens lic two white Beacons on the S. Wall: The molt Eafterly is on the Tail or talling off; you may go by to the Southward. The Road where the Ships bound to Harlingen fop to lighten, lies betwen two black Buoys by the W. Coant.
N. B. All the Deprhs above-nam'd at Stortchmbeck and Reoms-Giat, is at low Water; it is threc Foor decper at half Flood, for it flows there at a common Tide but $s$ : to 6 Foot.

## Aneliad Chamel.

Anc! n: is an Ihand : Is to the Eaftward of Scheliing, ly. ing E.N.E. and W.S.W. Upon the W. end of it is a Beacon, and a great Tower Stecple called Hocim: The Root of the Church is broken off, but the back Front has the Roof upon it, and appears above the Walls. To the Eaftward of this Church is a Mill with a Houle, to the Weftward of that alfo a figuare Tower: About the place where Midland Church flood, are 3 or + white low Sandhills flat on the top, and long towards the E. it is craggy Land with white among it. From the W. end runs off a Ritt almoft 3 L.s. into the Sca, called Born Rift; 'us very fleep on the outfile: you muft not come nearer it than in 12 ta. If you come from the Eaftward you mult not go within it, but in 7 Fa. you go clofe aboard it.

To go into Ameland from the Scaward, bring the Beacon on the E. cud of Sibelling right over the Stecple of Honon, bearing S S.W. from you wefterly; go in fo till the Beacon on cimlind. and the Stecple of Hollm come one over the other:
of Born Rifi leacon and S Buoy, whic the Fair W:a Watcr. Bcil to the North third Buoy u off from the white Buoys the other aga third abouts white. leavi on the $N$. fit Lcad. But firt Quarter N.N.W. over third Buoy it the fand Plat very ftcep, till the Stect where the Bu fide is flat, very fteep.

To tial tar aloug by tho is a redtiled Church: th Winds, and Fair $W_{\text {ay }}$ it
$N . R$. derfto

At $A m p i c$ At Hoor' Between Moon. Upon the lathe $F$ b

Bcfore the the Ground Rooms Git.

On the co the Grounds Clannel.

The laft Fbb, and if firft Quarte

Of the Sou,

## he Coafts of Holland aud Germany.

of Born Rift; run along to the Southward of it, kecping the Beacon and Stecple one over the other, till you pals the fecond Buoy, which lies thwart the W. end of Kamperfand. In the Fair W'ay between thote two Buoys you have s to 6 Fa . Water. Being part the fecond Buoy, bring the Seceple a little to the Northward of the Buoy, and go on E.N.E. towards the third Buoy upon Girrit/honden, to avoid the I'lat which lies off from the S. fide towards Born Rift, on which lics two white Buoys, the firt againft the faid third black Buoy, and the other againft tine fourth black Buoy, which lics from the thiddabout S.E. Run thro' between the black Buoy and the white. Icaving all the black on your Larboard fide : the Plat on the $N$. fide is indiffercut that, youmay run by it upon the Lead. But be carctul in llifting your Tides, elpecially the firt Quarter Ebb, which runs very trong in the Channel N.N.W. over Born Rift into the Sea. Between the fecondand third Buoy in the Fair Way is 8 to 9 Fa. between the third and the lad Plat 7 Fa . Being pait the fourth Buoy, both fides are very ftcep, and the Fair Way is 8 to 12 Fa . go in then S.S.E. till the Stecple of Hocim come over the S. Point of Almelind, where the Buats lie ; and then you are in the Bighe. The S. fide is flat, and good anchoring in 5 to 6 Fa . the N . fide is very flecp.

To liil tarther into Morfen, go away from the Bight E.N.E. along by the S. fide in 5 to 6 lia.till Heynoom's Chamber, which is a red tiled Houle, come a little to the N. Ealtward of Hockm Church: then you are on good Ground, well thelter'd from all Winds, and have 5 to 6 Fa. Water, and little Tide. In the Fair Way it is 12 Fa. the N. Shore very ftecp.
N. B. All thele Depths, as alfo of the Fby, are to be mderfood of Low Water.

> Of the Scits of the Tiacs.

At Amficrdam a N.E. and S.W. Moon makes full Sea.
At Hoorn, Enchms $n$ and C'rk, a N. and S. Moon.
Between Cripple sand and Cryel, a N. by W. and S. by E. Moon.
Upon the Frees and Wierengen Flat, N. W. and S. E. In the Fly and Ameland-Gat, S.E. and N.W.

Before the Fly the Flood fets to the Faftward, thwart over the Ground, alinoft till hali Flood, before it fets into the liooms Gat.

On the contrary, the Ebb falls to the Wcftward, thwart over the Grounds, till almolt half Ebb, before it fets right out at the Channel.

The taft Quarter Flood turns about with the firft Quarter Ebb, and fets along Flyland out of the Stortelmeck; but the firft Quarter Flood runs right in there.

Of the Soundings about there Places, and in what Depth the Land moy be fect.

Anched is an Inhad = Is. to the Eaftward of Schelians, Iying E.N.E. and W.S.W. Upon the W. cnd of it is a Bcacon, and a great 'lower Stecple called Hocim: The Root of the Church is broken off, but the back Front has the Roof upon it, and appears above the Walls. To the Eallward of ehis Church is a Nill with a Houle, to the Weftward of that allo a lyuare 'Fower: About the place where Midland Church food, are 3 or + white low Sandhills flat on the top, and long towards the E. it is cragey Land with white among it. From the W. end rums off a Rite almolt 3 L.s. into the Sca, called Born Rift; 'bis very feep on the outfide: you muft not come nearer it than $\mathrm{m}_{12} \mathrm{Fa}$. If you come from the Eaftward you mult not go within it, but in 7 Fa you go clole aboard it.

To go into Ameland from the Scaward, bring the Beacon on the E. cud of S'Clilling right over the Stceple of Iloorn, bearing S S.W. from you wefterly; go in to till the Beacon on simethad. and the Stecple of Hoilm come one over the other : then Icaving the firt Mark, fail in upon the fecond, and you will fall with the utmoft Buoy, ly ing within the outmolt Pome of Rown Rif:。

Coming from the Weftward, run along by the Strand of Scine!lezs 115 to $5 \frac{1}{2}$ Fa. ar low Water, and you will go right with the ourmelt Buoy; and then the Church and Stecpic on Alnetand will come one over the other, bearing E. foutherly.

Coming along by Schelling in 4 Pa you will avoid Koges-a-eps Groitid. Over-againft it lies the firft Buoy on the S. fide

## Sailing Direfions for the Coafts of Germany, from the Channel of Ameland,

 A S T' of Ameian', a lietle Northerly, lies the Ifland of Schicremoncon, diftance 3 Ls. it is a fmall low Land flrecthing E. and W. about = Ls there are two Beaconsplaced on the W. cud of it, where there is allo a white Sand-hill. There are other Sandhills, but they are rather blackilh or grey Hummocks. The Illand is highelt at the E.c cond, where allo the Shore is flat and tandy, with fome limall Sand hills.

But if you would go in here, bring the two Beacons into one; you will fee a Buoy which is placed without the Channel in 7 Fa. Water: There are two or three Buoys within in the Chamel, you mufl Icave them all on the Starboard fide, kecping to the Eaftward of them; and when you are in the Chancl, you will fee other Beacons on the W Shore, guiding to Ofime Fiboun, where is goodanchoring. The Entrance and Channel here flife often, fo that yon will do well always to take a Pilor.
Eaft from Scijecremoncoo, diftance ${ }_{4}$ IS. is the Ifland of Rottion, and betwecn them a fimall Illand called the Bofits: tis a
far St 'tis bu this if for fin. the $R$ the fh
 At Hoorn, Eincimy $n$ and $\mathrm{O} r \mathrm{k}$, a N. and S Moon.
beling, ly. is a Beacon, .oot of the oof upon it. this Church allo a fyuare Itood, are towards the the W. and Bor" Rifi; ne nearer it ou mult not
the Beacon c of lloor'n, c Bcaconon r the other: d, and you tmolt Pont
ac Strand of ill go right d Stecple on foutherly. void Kogucn the S. fide

Betwen Cripple sand and Cryel, a N. by W. and S. by E. Moon.
Upon the Frees and Wierengen Flat, N. W. and S. E.
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Before the Fly the Flood fets to the Ealtward, thwart over the Ground, almott till hall Flood, before it fets into the Booms Gitt.

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The laft Quarter Flood turns about with the firft Quarter Ebb, and fers along Flyland out of the Stortchacck; but the firl Quarter Flood runs right in there.

Of the Soundings about thefe Places, and in what Depth the
Land may be fect.
The Illands of Filyand, Schelling and Texel, may be feen in 15 to 16 Fa . Water off of Schelling; the Ground is white Sand.

P'ter's Sand and Born Rift are very flecp on the off fide ; it is 12 to 13 Fa. clole by them : Ameland may be feen in 12 Fa. but.cannot befeen in 15 to 16 Fa. as the Texel may, becaule the Depth of 12 to 13 Fa. runs far off into the Sca.

## Germany, from the Entrance into the Zuyder-Sea, by of Ameland, to the Ryder.

ics the Ifland sa fimall low here are two iere there is other Sandrocks. The re is flat and

Beacons into the Chamel within in the rd fide, kecp11 are in the ore, guiding Entrance and 11 always to

Mand of Rot3ofils: 'tis a
flat Strand, and at the Spring-Tides is often under Water, yet 'tis bur juft cover'd. There is a fimall Creck runs in between this Ifland and Schecremoncoo, but 'tis of no Depth fo much as for finall Veffils. There is likewife a Chanacl on the E. fide of the Bofil, but 'ris lometimes decp, fometimes thoal; fo that the fhifting and uncertainty of the Ground renders it ufelefs.

Rottum has high and ftecp Land abour the W. End; the reft is flat, with fome little Sand-hills; it ftretches out W. by S. and E . by N about a League and a half in length. There are two Beacons near the E. cud, bue no Lighe houfe, as was intended. There are only two Houles on it, one at the E. end. and one in a finall hollow Ground in the middle. There are very few Inhabitants, becaufe with a N.W. Wind fometimes they would be in danger of being over-flow'd by the Sca.
N.E. by E. from Rottum lics Borkum, diftance about 2 Ls the W. Channel of the Ems lying between, which is the faireft Channel, and the cleareft of Dangers on all thic Coant. This Ifland thews off at Sca, as if it was three or four Illands, clpecially from the Weft, becaufe ar Spring. Tids the Sea over-

## Directions for Sailing on the Coa

flows it, and divides it iuto three parts. There is a Sand flootiug out a great way into the Sca trom the W. fide of the Illund, called Borcum Riff: it is broader next the Ifland than at the W. end, where it is flat and very narrow. Keep the Beacons upon Rotum, bearing S.E. and you will run over the Tail of the Riff" : it has : \& Fa. at low Water; it thoors with a breaft inward, and is very flecp on the fide.

Kepping the fame Beacons in the fame Bearinge, you go directly into the Chanel of the Limbs to the firft Buoy ? then you will fee the Tower of Borciom E. Southerly, and the Weft cad of Ruttun S.E. by S. The faid firt Buoy is white, with a Flag on tr, that it may be more vifible: If hes on the Tail of the rat' Sacks $\psi^{\prime}$ tht, and has o Fa at low Water.

Hence to the next Buoy up the Limbs the Courfe is S E by S This is a black Buoy, and lics in 7 Fa . Warce: Kecp this Buoy on your Starboard, and the white on the Larboart-fide ballug up. Being up with the fecond Buog, Borcum Tower bearng E. and Kottum licacons S.E by E. then the Courfe to all the tour Buoys is E by S. Coming in thus from the W. when you are near the Latimers, kecpalong there in ${ }_{5} \mathbf{F a}$ and then go ou duc E. that Courtic carrics you clear of the Gelteficks Plat, 111 ; to 8 Pa. till you come to the fourth black Buoy, Where youhawe +Fa

Iroin this fourth Buoy to another which lics in the Turning of Rotum, the Courfe is ES.E. From thence to the fixth Buoy, and to the Huybert's Buog, the Courle is E. by S. All thole buoys lic in 6 to 7 Fa a clear lpacious Chamel ; and in the Fur Way it is 12 to 14 Fa. Water.
From the nutmoft to the imnermoft Huybert's Buoy, the Conte is E.S F. Thete Buoys lic in 6 Fa. From this latt Buoy to Steen "/ans's Buoy, the Courfic is S.E. As you pals this Bowe, there is a fmall Tail of a Sand called Alezexh's Tail, which ihoots from the $W$ olds at the $S$. end of Borchm. Leave foncuma little on your Larboard fide, and you run by it $m$ s fa at low Water, to that there is no Danger.
W. from 'teven'Yans's Buoy are; Beacons; and S. of them lies a Chamaet called the "/ att, which goes in S. byW. There you meer with a kiff called the Ranfet: Kecp the Tower of Burctum ontheW. of two little rifing Grounds at the S. cud of fiorchn, catied the W'olds; and you go by the Watt Channel clear of the Ranfil, where you liave st to y Fa. Water.

The next is 7.oeck Buoy, the Courte S E. and Southward of it is Ruyte Beacon: the Floodfets very flrong into "Doeckgat behnd this Buoy, and you muft take care of the Indratt.

From hence the Courfe is S.S E to Camper Buoy, and thence S.E. to Em/lorn Buoy: they both lic in 5 Fa. but you have 7 to 8 Fa in the Fair Way. Brugg the Cinflerdam Church in one with $H$ owick, bearing from you S.W. then you are a-brealt of the $I: m$ fition Buoy: from thence on the S.W. Shore you have; Beacons. (io away S.S W. by them all to the Gironin.
 in one, near the shore of $D^{\prime}$ lff $\angle / y$. Thus you go clear of two Sands called the Hont and Pape, which lic on the E. fudc of the Channchi or youmay kecp clofe to the E. Shore in

There : King's t'l run directl on the ' A There are
From th Ba $y_{s}$ b, the in one, the Buoy at $/ \mathrm{I}$ kecping on fair out int member, $n$

In the Hoogh Hor of the Cha for fimall S then ftecr the Road,

There a the Hoogh, at the end and good 1 at a like Iflands, wit finall Chan unccrtain fimall impo Goverminc Beacons pl

Thefic II whole Co nel betwed was forme the Chann that they mocks, th
2. Nor Iength : 1 Illand is $k$ fquare To 3. Balt long. Be Gut call'd and fomet the Illand high one:

## ing on the Coafts of Germany.

High Horn, which is a good Road for a S.W. Wind in $s$ to 7 Fa. From hence you muft take the bood to go up; then Itece to the Northward a litte, to avoid the Tail of the Erewiers Plat.

From the fecond Buoy, the $\%$ uy/ter Riff; which was to fteep before, is that, with good Shoalinis; you may run along by it in 5 to 6 Fa . Being a little to the Lathward of the fecond Buoy, the third Buoy bears S.E. and there the Channel is broadeft.

There is a flat on the S. fide of this Chamel, called the
 run directly on it ; but bring the Buny and Beacon which ftand on the l'all of it, on the Surboard fide, and you go clear. There are longer Marks, but thes is lufficient.

From this Buoy on the Kizts's 'lhat to the buoy ar ticif Balsh, the Courte is SE. till two Beacons on the Strand enme in one, the Buoy bearing S.S.W. from you. Then to a fecond Buoy at IV'clt balsh the Courte is S.W. and by the tame Mark, kecping on, you will run qute thro the Baly, and in come fair out into the great Chanal of the /fofler Embs; only remember, near the upper end keep S.W. half Went.

In the way of this Courte, between the Beacon called the Hoogh Horn, and the Buoy on the King's •Ptht, on the E. fide of the Channcl, is a very good Road, called the Momer Batgh, for fimall Ships, bound euther in or out. You go in N.E. and then fteer N . to the anchoring Place; there is +Fa . Water in the Road, and good Ground.

There are two :hore fimall Roads, one within the Balgh by the Hoogb Horn, which lics or gocs in due S. and the other at the cnd of $\% \| y / l$ Ri $y_{1}^{\prime 2}$, betwecn two Points, where is $3 \frac{1}{2} \mathrm{Fa}$. and good Riding. Eaft from this Inland of " $\% / x y / t$, and all along at a like dittance from the Shore, lic a continucd Range of Inands, with Sands and Flats about them innumerable; alfo with fimall Channels between them ; moft of which Channels bemy uncertain by reaton of the often thifting of the Sauds, are of finall importance to Navigation : Nor are they fo noticed by the Governments to which they belong, as to have any Buoys or Beacons plac'd upon them.

Thele Illands are, (i.) The Buys, the finallett Inand on tha whole Coalt, dittance from ${ }^{\circ} \mathrm{Fay} / \mathrm{f}$ I Leaguc. The Char. nel between this and the $\% / u y / t$ is calld the Buys $D_{\text {erp }} p$; it was formerly der with Buoys by the Council of Eimbden, but the Channel thifted to often, and was of to little importance, that they are taken away: The lland is known by two Hummocks, the higheft is to the E.
2. Norderny, E. from Buys, diftance $\frac{1}{2}$ a L. and 5 Miles in Iength : The Chaunel beween is call'd Norder Decp: The Illand is known by a white Sand-hill near the E. end, and a fquare Tower on the W. end.
3. Baltrum, E from Norderuy, diftance 1 L. and o Mile; long. Berween this and Norderny goes in a narrow uncertain Gut call'd Wichtery; fometimes it has a Fa fometimes not one, and lomerimes almott choak'd up. There is no Murk to bnow the 1 lland by, but fome low Sand-hills at the W. cnd, and one ligh one at the E. cnd.

W' from been fams buny are ; Beacons; and S. of them hesa Chamel called the /"att, which goes ms byw There you meet "the a Raff called the Rumfl: Keep the Tower of Roncmo ontheW. nt wo litele rifing Grounds at the S. end of Forcum, called the /6olds; and you go by the Watt Channel clear of the Rayfil, where you have ss to y Fa. Water.

The next is Poeck Buoy, the Courle S E. and Southward of it is Kuyte Beacon: the Flood lets very flrong into Doeckgat behond this Buoy, and you muft take care of the ludraft.

From hence the Courte is S.SE to Cimper Buoy, and thence S.E. to Emporn Buoy : they both lie in 5 Fa. but you have 7 to \& Fa in the Fur Way. Bung the Clefferdam Church in one with haiumh, bearmg trom gou S.W. then you are a-breatt of the f wiflean buoy: from thence on the S.W. Shore you haves beacons (io andy S.S W by them all to the Gironin.
 in one, near the shore of 1 ) ift Kht. Thus you go clear of wo Sands called the Homt and l'ape, which tie on the E. fode of the Channel ; or you may kecp clote to the E. Shore in o Fa. Withon thole Sands: But the W. Shore is much the bett, and carries you dircetly within the Hont and the Pape: Keep therefore by the beacons on the W. Shore, and you come to ()tterdam. In this Courlic you pals by the Country of Grounser"; the Reach lies S.S. E. and S. by W. and in the Bending S.S E. and then again S.E.

Here you may we a Pilot to the City of Embden, which lies on the E. Shore of the River, and where you have very good Ridns.
$N^{\prime}$. $B$. As you bail up the Weft Embr, you lave all the buoys on the Starboard fide, except the white Buoy with the lag, upon t.
N. R. The Tute flows betore the Town of Einden S. and S. by W. and N. and N. by E.
E.N.E from Bor, anh, diftant one Lesue and a half, is a litthe low hland called fargt it is hegher at both ends than in the mudlle: the Church has a Spure at the Ealt end of it, but camot be acen, bue when you are thware of a low Valley in the midate of the Mhand. Between this Illand and Borcam gocs m the Clannel called the Eafter Limber to the fouthward of a cotam Riff; "hach rums out from the W end of the Ithand, and thours ont = Ls and a halt moto the Sea due Weft.

Io go into this Channel, you mult bring the Tower of Borcan withancw Beacon, (ket up a few years fince on purpote to drect this Courte) duc S. and having firft come over borchem flat of (iromblin ; 1 a as before, then you are abrealt of the firt Buoy of thas Chand in $\mathrm{F}_{\mathrm{Fa}}$. Thence the Courfe is E. by $N$ to the lecond, and E.S.E. to the third. The Buoys lie in 5 Fa and youhave 5 to so Fa, in the Fair Way.

Betwecn the firt and lecond Buoys the fide of yuy/ter $R$ iff is to exceeding flecp and rifing, that there is no founding it; but farther up 'tis thates, and the thirdBuoy lies on the Tal of the Rreä ers Plat on the Eat end of Borcam. From the thatd bwoy the Comtic is E.S E: to the Moggh Morm, or

Goverm Beacons Thele whole ( nel betw was forn the Chat that the mocks,
2. No

Iength : Illand is fquare 3. $B$ long. Gut call and fom the Iflat high on 4. $L$ length: hills flat the W. gocs in tis not of no $u$ know it 5. $S P$ long; tl Inttick, There is
6. IF Iength : bulgh an ing, fo

Off fi ded into from E . W. tak Ships ec Iflichd, Havi deliver' you up or Elice

To th Elbe : from th into the or Creel and the

As $y$ the Sont nearer,
i. of them

Govermments to whach ehcy belong, as to have any buoys os Beacons plac'd upon them.

Theic Itlands are, (1.) The Euys, the limallett Inand on the whole Coalt, diftance from ${ }^{\prime} / t y / t$ i League. The Channel between this and the $\%$ \%yft is call'd the Buys $D$ Dep ; it was formerly fet with Buoys by the Council of Eimbder, but the Chaninel fhifted to often, and was of to little importance, that they are taken away: The Illand is known by ewo Hummocks, the higheft is to the $\mathbf{E}$.
2. Norderuy, E. from Buys, diftance $\frac{2}{2}$ a L. and 5 Miles in length : The Channel between is call'd Norder 'Decep: The Illand is known by a white Sand-hall near the E. cnd, and a fquare Tower on the W. end.
3. Baltrum, E. from Nordiruy, diftance ; L. and G Miles long. Between this and Norderny goes in a narrow uncertain Gut call'd W'ichtery; fometimes it has 2 fa. fometimes not one, and fometimes almoft choak'd up. There is no Mark to hnow the Illand by, but fome low Sand-hills at the W. cod, and one high one at the E. cud.
4. Langerough, E. from Baltram, diflance 1 L. 9 Miles in length: It has a fair Strand on the N. fide, and fome Sandhills flat a top, at deftance from one another, all along from the W. end to the middle of it. Between thete two Inands gocs in a Channel call'd Actumy; it has fome Buoys on it, but tis not to be trulted, for the Channelfhifis to o'ten, that 'tis of no ufe but to the Fithermen, who run thro' every day, and know it well.
5. Spikerough, E. from Langerough, Mile, andabout; Miles long; there was formerly another little mind clole to it, calld Luttick, or litte Specerough, but 'tis wath'd away by the Sca. There is nothing worth notice on this Ifland
6. Wrangrongh, E. from Spekerough, Milcs, and 3 Miles in length: There are imall Channels berween thele, as the Oxbalgh and the Harel, but like all the rett uncertain and hatsing, fo of no ufe for Shups of Burden.

Off from this Illand opens the Channel of the IF cere divided into two by a large Sand call'd the Red Jand, itretching from E.S.E. to W.N.W. 3 long Ls Ships coafting from the W. take in Pilots from the Wirangroogh, or from the Shore. Ships coming from the N take them at Hedgeland or Kioly Iflind, as they do altio for the Elbe.

Having thus brought you to the Mouth of the $/ / c / e r$, and deliver'd youtafe mo the Hands of the skilful Pilots to carty you up to Bromen, I go on with Ships bound into the Eile or Eite for Mamburgh, or orher Places in that River.

To the caftward of the Wefer lie the South cirounds of the Elbe : Thete are certain large Flats or Sunds, lying of $W^{\prime}$.

 or Creces in thete Flats, calld the Tills, tinat is, whelt cjibio and the liaflern Till.

As yougo from the /fefire caltward, if you are driven toward the South Ciroand you may rumalon by it in 4 to 6 Fa. but nut neacr, the Sand being itcep. Whon, going ou has, you come

## 'Directions for Sailing on th

to $S$ to i: Fa.foft Ground, you are then ecensinly thwart the W'fle, Till, and may run into it for Shelter; 'is a good Road, and fife for all Winds lying to between the Sands : You may ftc in E.S.E. by the N. Shore of it, which is all clear and deep, and has 12 to is Fa. Wace.

The Eafter Till lies N.E. from the Entrance to the Weller Till, it lies between the Sands like the other, and has good Depth and Shelter fromany Winds You go in E.S.E. More N.E. and fill running by the Soundings of the South Grounds, is the HoundBalsh, where lies a Steep, with a Buoy on it called the Scherborn. Here alto Ships run in for Harbour between the Sands.

Hc call'd and $t$ there the S other called the $l$ outs and f you Water above

## Sailing Directions for Helighland, or Holy



OLT Ifind lies due N. from the ourmof Buoy of the lifer, distance $8 \frac{1}{2}$ Ls. and from the Born Ref; between the schelling and Ameland N.E. by F. and SW. by W. diffance $z_{2}=$ Ls.
When fort you make the Inland from the W. it flews a high reddifl Point and that on the Top: You may rum boldly up to it, and anchor clofe under the scholevers \%oont, which is on the S.E. file, in 5 to 9 Fa. When you are near the S. Point, you will fee the Monk, a Rock which appears high above Water, almond as high as the Inland; and a Mile S.S.E. from the Wank is a lunk Rock which is dangerous: keep in 8 to 9 Fa Water, and you are clear without it. When the Band hides the Monk, then you are thwart it ; and when the Monk is teen without the Land, you are in the belt of the Road, and have so to it Fa. good clean Ground, flacler'd from W.S.W. Winds, alto from N.W. aid northerly Winds, but open to the E. and See.

There is a long Riff runs out from the $N$. file of the Inand ahmolt a league into the Sca ; fo that you mut come no neater that fide than 9 to 10 Fa . When you are on that Gide, and the Eland bears S. or S. by E. you may run to the Scholvers Point, where you have 8 Fa. 2 Ls. from the Shore, and a flat Point.
From the Monk Point there is a fall Riff, but there is three Fathom over it, fo that you have no danger on that fides, except that in the Road there ate fevcral loft Anchors and Wrecks of loft Ships lying under Water: There is a Haven for finall Ships allow, called the South Haven, which lies within the Bank which runs from the S. end of Schoterer Point.

This Inland equally regards the Wafer, the Elbe, and the Tyler or Hewer; and here are Pilots always ready for all thole Rivers, and molt of the Ships bound up thole Streams call here for them.
The Ever lies N. from the Elbe, distance 6 Ls. The Land or Coast of 'Ditmarl/, or Holfcin between the two

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N. 31.5 is the Chant Places at all lots to Harbor you ri Inland lis be on w! bring are wi to the 9 to fides. till th may $q$

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## Sailing on the Coafts of Germany.

thwart the goodRoad, : You may Ill clcar and
the $W^{\prime} \mathrm{effer}$ d has good S.E. More th Girounds, : on it call'd our between

Here begins the Mouth or Channel of the Elbe; and this is call'd the onemoft Ruov of the Elie. The Road of Holy Ifland and this Buoy lic S.E. by S. and N.W. by N. diftance 8 Ls. As thefe Sands are calld the Soutb Grounds, becaufe they lic on the S. fide of the Channel of the Elbe; fio on the N. fide lie other large Sands, ftrecthing alfo far into the Sea, and thefe are call'd the Nort's Grounds. The S. end of thefe Sands is call'd the loyel Sand, which runs with a long narrow Tail from the outmoit Buoy of the $E / l_{6}$. W. by N. into the Sca almoft 3 Ls. and from the Land on the N. fide of the Elbe near 6 Ls. But you may run over the Tail of this $V$ orzel Sand in 5 Fa. at low Water, any where without the outmott Buoy of the Elbe, as aborc.

## land, or Holy Ifland, in the Mouth if the Eibe.

hows a high ooldy up to which is on he S. Point, habove WaE. from the n 8 to 9 Fa Mlland ludes Monk is tecn d, and have S.W. Winds, to the E .
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but there is on that fide, Anchors and a Havel for :s within the oint.
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6 Ls. The en the two

From Holy Land to the Small Deep the Courfe is N.E. by N till Picluinm bears E. by S and the S. and of Ameren N. Then go on founding, and you will not mils the Palfage. You may take Pilots allo at the the of Amerch, or Picharm, for all this Conft, which is all fo full of Decps and Flors, that it wound take a Volume to deferibe them; and ate it was donc, no Marincr would venture among them withour skilful Pilots, who are always to be had upon caly Terms.
N.N.E. from Ameren is the Inand of Silt, diftance near 3 l.s. and is + L.s.in Iength: And in the lame Point from Silt is the Bland Kem. Beeween thete three lic feveral Deeps or Channcls, which run in for Butfoot, Tonderen, and other Places on that Coaft, among abundance of Flats and Sands; at all which Iflands, upon making Signals, you may have Pilots to carry you in. On the SE. Shore of the Silt lies the Harbour of Liff ; 'ris N. from che Siller Yeep. diftance 8 Ls. you run in by the N . end of the Mland; the Mark is a hittle inand without the Point, which you will fee in 6 to 7 Fa and lics betwen the Sitt and the Rem a hetele to the caltward: on which Ifland is a Houle call'd yourtmazs-boufic, which bring a little without the Pout of Lift. Keep it to till you are within the l'oint, running in E. by S. and S.S E. then edge to the S. about the Point, and anchor before the $V_{u c h}$ - bouffe, in 9 to 10 Fa. leaving a Sand call'd Hacf Sand on the Larboardfide. If you come from the northward, edge from the Shore till the Red Cliff comes withour the Sand-balls; then you may go over the Sand with Ships of tmall Dratt.

Herc you may take Pilots for Tonderci, or Hufum , or any of the Places on the Coaft of 9 witland; fo there is no Occifion for farther Directions.

The illand Rcm is 3 Ls in Iength, a very fiat low Shore, fo that you can hardly fee it in 7 Fa. the Chamel of Lij: lies between them.
Weft of the Inland Silt is a long Bunk of Sand, ftecthing 2 Ls. in Iength: You have if Fa. Warer in the Paflage be-
mand amy ancague into thic Sca; forthat you mult come no nearer that fide than 9 to 10 Fa . When you are on that fide, and the Illand bears S. or S. by E. you may run to the Sobolvers Point, where you have 8 Fa. 2 Ls. from the Shore, and a flat Point.

From the Monk Point there is a fmall Riff, but there is three Fathom over it, fo that you have no danger on that fide, except that in the Road there are feveral loft Anchors and Wrecks of loft Ships lying under Water: There is a Haven for fimall Ships allo, call'd the South Haven, which lies within the Bank which rans from the S. end of Scholvers Point.

This Inand cqually regards the Wefer, the Elhe, and the Eyder or Hever ; and hereare Pilors always ready for all thole Rivers, and moft of the Ships bound up thote Streams call here for them.

The Eyder lies N. from the Elbe, diftance 6 Ls. The Land or Coaft of Ditinar/b or Holffein between the two Rivers, is full of Shoals and Flats lying far out, which renders the Entrance very difficult. . This was the Reafon why in the late Siege of Tonningen on the Eyder, fome Englifl, Ships hired by the Duke of Holfecin's Agents to carry Provifions for the Relief of that Place, were loft in the Mouth of the Eyder, the Thanes having caufed the Buoys to be removed, and forbidden the pilots at Holy Ifland to ferve them on pain of Death.

On the N beyond the Eyder, being the W. Shore of the Land of Eyder Ster, is a broad Sand call'd the New Ground; and on the S Shore within the Eyder a long Sand call'd the Now Gronnd Breertyg. All the Mouth of the River is alfo full of Shoals, fuch as the Blavoort, the Hound, the Iron Henrick, the Meck Saild, and leveral others. Every where the Buoys and Beacons are placed for Directions, and the Pilots as above are thorowly acquanted with them.

Duc N. from the Mouth of the Elbe, and alfo of the Eyder, gocs in the Hewer, diftance from the fleep Buoy on the Schorton in the Elbe to L.s. and from the Tail of the Hound in the Eyder 5 Ls. The Courfe to this Entrance from the Helighland is N E. calterly, till you come into 6 or 7 Fa. bringing the Spire Steeple of Piciworm to bear N.E. by N. and to the S fouthward of the fouthmoft Houfc on the Ifle of Nubol.

To fail into the Herer is fo difficult, that notwithftanding all pollible Dircctions the Ships bound up to Hufim take Pilots cither at Helighland as before, or at the Inands Tielworm or Nithol: The Entrance. Itay, is difficult; but when you are paft the Sands, and gotten into the Fair way, the Channel is cicar and decp up to Hufirm-bridge, and you may anchor where you pleale.

North from the Hezer is the Inand of Ameren, and the Paltages call'd the 'Decps, diftinguifin'd by the Small Deep, the Red Deep, the Silter Decp, and the New Deep; thefe are Channcls all leading into the Bays on the Coalt of Juit. hind within the Voorn.

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hore of the $\omega$ Ground; ad call'd the liver is alfo c Iron Hen. Where the the Pilots as
o the Eyder, n the SchorKound in the the HclighFa. bringing and to the i Nubol. withftanding t take Pilots iclüorm or cn you are Channel is may anchor n, and the mall Deep, beep ; thele aft of 'juit.
4. .
lics between the Silt and the Rem a little to the caftward: on which Ifland is a Houle call'd "/euremans-looufe, which bring a little without the Point of $\dot{L} i / t$. Keep it to till you are within the Point, running in E. by S. and S.S. E. then edge to the S. about the Point, and anchor before the $V u c / s t$-/ous $f$, in 9 to 10 Fa. Ieaving a Sand call'd Haef Sand on the Larboardfide. If you comid from the northward, edge from the Shore till the Red Cliff comes without the Sand-bills; then you may go over the Sand with Ships of fmall Draft.

Here you may take Pilots for Toudercu, or $\mathrm{Hu} / u m$, or any of the Places on the Coaft of Yuithand; fo there is no Occafion for farther Directions.

The Ifland Rem is 3 Ls. in length, a very flat low Shore, fo that you can hardly fee it in 7 Fa . the Chaunel of Lif: lies be. tween them.

Weft of the Mand Silt is a long Bank of Sand, ftrecching 2 Ls. in length: You have 13 Fa. Warcr in the Paffage between it and the IMand, the Holy Ifland bearing due S.

From the Channcl of Lift to the Channel of Rypen, call'd Rypen Decp, the Courfe is N. by E. diftance 7 Ls. From Holy Land the Courfe is N . wefterly. This Channel is very dangerous in foul Weather, the Coaft being flat far off to Sca: Make Signals thercfore to the Inland Manu for Pilots, who will come readnly off, and you may ride within the Gore Sand till they come to you. Here the Rypen Ships outward-bound ride fora Wind, as others do at the Texel or the Dowiss: There is good riding alfo within the 1 fland $M a n u$ in 6 to 7 Fa .

## N. B. You cannot go up to Rypen at all with great Ships.

North of Manu, the Rypen Deep being between, is the Ifland Pbann, in length almolt 4 Ls. N.N.W. and S.S E. North from that lics a Shoal call'd $\#$ "ifdike, and ftill $N$. a Hill call'd Luysberg. Between thefe goes in the Graise Deep, which goes in to Hartingen, and higher to if oerd, 9 Ls. beyond Hartingen within the Land: But for this River, which is both narrow and crooked, you have Pilots at $T$ 'banu.

From Pbanu to Schelling-kroeg the Courfe is N.W. diftance 4 Ls. Berween is Souther-Zjt, a finall Creck, having 1 iFa. Water. Scloclling-kroeg is a good Road for all Winds, as allo is Kingsborough in the Kettle. If you come from the northward, and are bound into any of thefe difficult Crecks, you may run into this Kroeg, and ride for a Wind; it is fo wide, you may turn in if the Winds are againtt you. It flows nor above 6 Foot in any of thele Parts.
> $\therefore$ ․ $n$ The farther northward on this Coaft, the Iefs Tide; what Tide there is, flows S.S.W. and N.N.E.

Between the Souther-Eyt and W'efler-Zyt lics a Point call'd the Horn: TheCoalt to the fouthward of it hics E.S.E. towards the Graze Deep, and to the northward of the Horn the Coaft

## Directions for Sailing on the Coafts of $C$

Coalt lics N. and S. towards the Wefer-Zyt. From this Point runs out a long narrow Bank call'd the Reef Horn, or the Horu Riff": Some call it the Devil's Horn; 'tis indeed in the Shape of a Horn, and runs marp out into the Sea 7 to 8 Ls. in lengeth, till it comes to a Point : 'Tis gencrally ${ }_{2} \frac{1}{2}$ to ${ }_{3} \mathrm{Fa}$ but near the Land 'tis $;:$ Fa. decp. It is a dangerous Shoal. becaufe it is to ftecp, that at onc Caft of the Lead you thall have : 2 Fa. at the next 15 , and at the next ${ }_{3}$ Fa. and then you are upon it.
North of this Horu Riff is another Shoal or Riff calid the $O \ddot{l} l$; it begins at the Shore, and runs off parallel with the Horn, and very fecpalio: If you are on the N of it, come no nearer than ${ }_{7}$ Fa. The $O w$ narrows at both ends, as the Horn docs at the W. end: There is a good Channel between the O $\because$ iland the Recf Horn.

Some Navigators intimate that the Great Dogger Bank begins from this Reef Horn, becaufe when they hail carly in the Morming out of Kincopper Deep, and run S.W. tho they have the Wind hard at N.E. yet till four in the Afternoon they fhall bave but 9 Fa. Water ; by which they fay the joining of the two Banks is demonflrated.
North of the Horn Yoint, diftance + Ls. lics a high Hill calld Blaüen Balgh or Creck, which looks black and fteep. To the northward of Blawenberg are feveral white Sandhills: All along to the Haven of Numet the Land is a finooth fair Strand for 7 Ls. together.

From Kincopper De:p, or the Haven of Numet, which is the fame, to Bovenberghen, the Courfe is due $\mathbf{N}$. diftance 10 L.s. the Coalt is all a clear Strand with finall white Sandhills. All along this Coaft you lee the blue double Hills call'd the Holmes within Land a great way. There are feveral Banks out at Sca in this Courfe, but they have all 7 to 9 Fa. fome decper.

At Bovenbergben is a fmooth long Hill, and on the middle a Church on a rifing Ground, with a tquare Towcr: When you are thwart it, the Land appears in three; the maddemoft with the Church is the higheft. The Land here may be feen in 13 to $1+\mathrm{Fi}$. off at Sca. Grofs red Sand, with fmall Stones.
N.N.E from /houpuberghen lie the Holmes, diftance 10 Ls. a high Point of land fecp down on the N.E. fide, having a Church upon the higheft part of it. Abour $s$ Ls. from the Shore is a Bank with 9 to 10 Fa. but 'ris but narrow: The Land fhews at a diftance with Hummocks, and leveral Steeples, all iquare flat Towers, no Spire:
Between thele two the great Yuitifl $^{\text {R }}$ iff freads it felf, and muns out W. into the Sca : it lies deep in the Water like the Broad Fourteens, having 12 to $1 ;$ Fa. Water on it: is bears from the Naze of Noriad S.E. by S. diftant ${ }_{2} 4^{\text {Ls. On the }}$ N fide of it is a gruff Sand, and on the S. fimall peble Stones. W.N.W. from the Shore you have 16 Fa at 8 Ls . diftance, and at io Ls. 20 Fas the fame Ground as beiore; and S.W. by W. the like diftance in 25 Fa. black and red Sand.
N.E. cafterly from the Land, diftance $1+2$. between the Holms and the Eaff-bead, diitant from the latter ${ }_{2}$ Ls. lics a ftony Bank very dangerous, and where feveral Ships have

There is a Light Point of the Scha Light-houfe and th Scljaw Riff, which a League into the Sc ward, you mult co of the Schaw bein! the Coalt from thi within the Sounding Wind be S.W. you the Light on the you are on the N . contrary, you are o half way between, anchor very fafely is a fmall Chanucl b Water.
Coming out of t up no Ground at 1 to the Jchaw Ritf tom being rocky. Weftward. you mu Belt fets fo hard t carry you away un E. or N.E. for any off of the Schaw $R$ ry'd by the Violenc way in 8 hours: ' 1

Being about thes fimall Holms on tic go on S.W. ti!! the you may fail betw but between the $I$ dift. 4 Ls. The G Lefou, and to the $S$ not come near the Neceffity you may
S. by W. from

Town lies ${ }_{4}$ Ls. up to carry Ships up, I

From the Entran $19 \div$ Ls. the Courfic Anout, like Helygel Point of Paffage for of Yutland, to Lu the Coaft of Norü Fair Way to them may be taken, acco fide of the Ine of the wholc Coaft in cult, that no Strang Pilots; whom you Fuitland, and the as far as Lubeck. I ber of frall Iflands

## be Coafts of Germany.

There is a Light-houfe or Fire Beacon upon the Eaflermoft Point of the Sclaaí: Bring the Church S.W. by W. and the Light-houfe and the Stecple in oue; then you are thwart the Schaw Riff, which is a Sand running E.N.E. from the Schare a League into the Sca. If you are bound about from the South. ward, you muft come no nearer than 12 or 14 Fa. the S. fide of the Schaw being very fteep; and if you are bound along the Coalt from the W. keep the Lead going. You may keep within the Soundings of the Land from 8 to 3 Fa . and if the Wind be S.W. you may gn about the Riffin that Depth. Bring the Light on the EI. fide of the Houles of the Schaw, then you are on the N.W. fide of the Schay Riff; and fo on the contrary, you are on the S.E fide : and when the Light comes half way between, you are at the Point of the Riff; Youmay anchor very fafely on either fide the Riff in 7 to 8 Fa. and there is a fmall Channel between the Rig and the Shore, with $2: \mathrm{Fa}$. Watcr.

Coming out of the Sound, heave your Lead; if you bring up no Ground at 18 to 22 Fa. 'tis a Mark of the Fair Way to the Schaw Riff, and of your being near it, the Botrom being rocky. As you go about the Schaw from the Weftward, you muft obferve that the Tide coming out of the Belt fets fo hard towards the Coalt of Norwin', that it will carry you away unawares, efpecially if the Winds have been E. or N.E. for any time. May 2.1605 . a Ship being becalm'd off of the Schace Riff, (as feveral Pilot Books affirm) was carry'd by the Violence of the Current N E. to the Coalt of Norway in 8 hours: "Tis truc, this is not often.

Being about the Scbaw, and bound for the Belt, leave the finall Holms on tice Starboard, being 4 Ls. from the Schare, and go on S.W. ti!! thwart Zeabuy. The Holms are fmall Iflands; you may lail between them and the Main to Zeabuy in 3 Fa. but between the Holms and the N. end of Lcfou is 10 Fa . dift. 4 Ls. The Grounds are all uncren between Zebry and Lefou, and to the Southward of che firft: Great Veffels ihnuld not come near the Land on any of thofe places; but in cafe of Necelfiry your may run thro' between the Holms.
S.by W. from Ziabity lies Aleburger, diftant 9 Ls. the Town lies ${ }_{4}$ Ls. up the River ; and as Pilots are always ready to carry Ships up, I need not deficribe the Port.

From the Entrance into Aleburger to the Inland of Haffelin, is $19 \div$ Ls. the Courlic is S.E. by E. This Illand, or the Illand of Anout, like Helygrland, to the Elbe, Wefer and Eyder, is in the Point of Paffage for the Great Belt, the Little Belt, the Coaft of Jut land, to Lubeck, the Coaft of Swieden, to Falfecrborn, the Coaft of Norwuy, or the Sound, being as it were in the Fair Way to them all: and therefore at either of theie Pulots may be taken, according as your Courfe is directed. The N. fide of the llie of Haffelin is very foul, and dangerous; and the whole Coaft in the Belt, and among the Illands is to difticult, that no Stranger fhould offer to put in any where without Pilots; whom you take at Haffelm for all the Ealt Coaft of fluitland, and the Paffiges of the Greater and Leffir Belt, as far as Lubeck. There are in the way an innumerable Number of tinall Iflands and Rocks. Decps and Crecks, but not
tlic Church is the higheft. The Land here may be feen in 13 to 14 Fa. off at Sea. Grofs red Sand, with fmall Stoncs.
N.N.E. from Bovenbergben lic the Holmes, diftunce 10 Ls. a high Point of Land ftecp down on the N.E. fide, having a Church upon the highelt part of it. About 5 Ls. from the Shore is a Bank with 9 to 10 Fa. but'ris but narrow: The Land fhews at a diftance with Hummocks, and leveral Stecples, all fquare flat Towers, no Spire:

Between thele two the greac 7 fuiti/h Riff fpreads it Kelf, and runs out W. into the Sca : it lies deep in the Water like the Broad Fourtecus, having 12 to 13 Fa. Water on it: it bears from the $N a \approx e$ of $N o r w a y$ S.E. by S. diftant 24 Ls. On the N. fide of it is a gruff Sand, and on the S. fmall peble Stones. W.N.W. from the Shore you have 16 Fa. at 8 Ls. diftance, and at 10 L.s. 20 Fa. the lame Ground as before ; and S.W. by W. the like diftance in 25 Fa . black and red Sand.
N.E. cafterly from the Land, diftance $1 \div$ L. between the Holms and the Eaff-locad, diftant from the latter 2 Ls. lics a ftony Bank very dangerous, and where feveral Ships have been caft away; it has but 2 Fa . at half Tide: and from the Eaflocad, which lies to the caltward of the Holms 4 Is. runs a Riff right out into the Sca near i Leag. there is 7 Fa. near it: and N.E. from the Holms dift. 9 to 10 Ls. is Robkuyt: between thele there is a Bay, in which you will fee five Churches with fquare Towers, and double Land, looking blucifh; they lic nearelt to Robkuyt; the Shore is a flat clear Sand.

Robkuyt, or Robfinote, is a high white Cliff, the Hill round, with a ligh Spire on it ; and to the Eaftward the Land falls in. making a deep Bay towards Harthals: The Shore is flat, and you have but 9 Fa ar 4 Ls. off, a Bank lying parallel with the Shore. The Courfe to Harthals is N.E. by E. diflant 4 I.s. there is a fquare Stecple in the Midway, and double Land, riz. the high Lands of Latclore over the high Land of Hartbals.

Thwart of Ilartbals is a ftony Shoal about a Mile from the Shore, which has been fatal co ieveral Ships. From hence to the Schaw the Courfe is E. N.E. diftant 8 Ls. the Shore all fill of Hummocks and Sand-hills; and the high Lands of Laeclow are leen all the way.

Within the Point of the Scluaw is the Church of the old Schazi, or Sclagen. having a fquare Tower: when the Towor bears S.S.E. you thould edge a little from the Land, to avoid a litile Sand which runs off Shore abour half a Mile : all the rett is a bold Shore ; from Harthals you have 4 to 5 Fa. as near as you pleate.

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S. by W. f Town lics 4 to carry Ships

From the E , $19 \div$ Ls. the C Anout, like $H$ Point of Paffa of 'yuthand, te the Coalt of Fair Way to may be taken, fide of the inc the whole Co cult, that no S Pilots; whom Fuitland, and as far as Labce ber of finall If much ufed by

The Inands thofe fimaller $\mathbf{P}$ but the prude Roffucfs and $C$ the Belt or tho the Baltick Sea ons in its Orde
N. B. T with th Coalt o The P . bcr'd o to it ; and cve no Shi Pilots, Coafter Corn a this ac bound being fi not be Necelfity you may run thro' between the Holms.
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The Inands of Zealand, Funcen and Laland, are alfo full of thofe fmaller Ports, as is the Coaft of Slefwick and Holfcein: but the prudent Mariner will take Pilots, either here or at Roffuefs and Callenberg, and fo from place to place; till paffing the Belt or the Sound, he opens with Lubeck, and comes into the Baltick Sea again, for which we fhall give Sailing Directions in its Order.
N. B. The feveral Countrics bounding on thefe Paffages, with the Inlands mention'd above, make in general the Coant of Denmark, and the whole is ulually called to: The Particulars are io many, they are not to be number'd or deferib'd. 'Tis truc, the Pilot-Books prerend to it ; but as they fcarce take notice of half the Places, and even thofe they do little more than name; and as no Ships of any value venture to pals here without Pilots, except thote belonging to the Inhabitants and Coafters, who are always running among them with Corn and Provifions, and are as it were at home: on this account 'tis fufficient to fay, that all Strangers bound among thele Iflands, or thro' thofe Paffages, net being fuppoled to go without Pilots, the Places need not be farther deferibed here.


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## Directions for Sailing on the $C$

## Sailing Directions for go much of the Coaft of Sweden a. Account of Norway begins, to Gottenburgh, an Point.

 Aclfirand, or Maflcrland, is an Ifland to the Southward of the Rocks called the Patcr Noffers, mention'd in our Directions for Norway, diftance $=$ Ls. If you come from the Schaw , the Courle is N.E. till you make the Hill Britto E.N.E. then run in with it, Icaving the $P$ ater Nofters on the Larboard fide : then go away E. by N. and E N.E. till you makc Maclftrand, where you will fec a large Stone Beacon, with a Mait and a Barrel, for Direction of Sailers: youmay have a Pilor to carry you in, for there are two feveral Channels.

About + Ls. S. from hence is Calf Sound, and 4 Ls. S. of Calf Sound is the Illand of Wimgo. Takc a pilor for Calf' Sound, for it is full of dangcrous Rocks: and at Wingo you muft take a Pilor for Gotterburgh one way, and for Babus the other way ; for both the Chamels go in by this Ifland.

Macelfound lics 3 Ls. to the fouthwad of $W^{\text {ingono }}$; it is a rough rocky Ifland, lying before the Harbour of Congsback. There is a good Road under the Illand, and you may fail round it lafe cnough; but if you would go into Congsback, take a Pilot here, for there are many Rocks, fome above fome under Water. The great Rock called the Nyding lies but one League from Maciffoithd, tis a foul and dangerous Place : The Rock is half a League long, with a Riff of tharp Stones lying from the N. end of it alnoft a Leajue more N. and N.N.W. having but 4 to 8 Foot Water on it: The S. end is marrower, and has a Tail of Rocks running out S.E. ncar 2 Ls. with but 3 to 5 Foot Water: fo that we may well fay, 'us a dangerous Phace. There is a Li ht, or Fire-Beacon kept upon it, to warn Saikers of the Danger : yet thete is good anchoring about 1 L. from it.
From hence to $W_{\text {r }}$ rsbergen is 5 Ls. S.E. by S. in a Bay, and duc 5. Monfterfound being on a River which runs into that Bay; and before the Bay lies an Illand called Giddero. There are feveral litelc Towns in this River and Bay, where Veffels go in to load; bue a Stranger floould take a Pilot at Giddero.

South of this Bay lies Valkenberg River; on the N. Bank of it is an Ifland callice Morufiong, and $S$. of that another called Tivlowi, diftance 3 Ls. There is a high white Hill here called

Young Kol, a the koll. feveral fimall fled, diftant fied, allo Bac Anchoring.

In the mida to thefe place Illand. The king the E. P

This Point from the tlle Courfe from Fair Way y and decper Depth. The is a Bank call by S. dift. 8 which is the dift. i i Ls. bed in its pla
The Entr: Coaft of $Z$ ca it cither fron Riff near $P$ cxcept Laprit whburg Calt of it. But if out of the fe Swedifh Sho Saiyn Boden Shore 2 ling Hielnes Fila Elfincure, a and the Lat!

If you are rections, tak Eughif. Adn

# At of Sweden as lies from Maelftrand, where the ttenburgh, and forward Eaft to Falfterborn 

outh-men-

Young Kol, and by fome miftaken for the great Point called the Koll. Beyond this is a great Bay, in which theic are feveral fimall Ports and Rivers, where Ships load, as Holmefled, diftant from Tuylaw, Ls. S. Labolm 2 Ls. from Holmefled, allo Baalficd and Liugellolm. At this laft there is good Anchoring.

In the middle of this Bay is the Ifland Swedero. To run in to thefe places, and within this 1fland, take a Pilot from this Illand. The Koll lies S.W. and S.W. by W. diftant $;$ Ls. making the E. Point of the Bay.
This Point of the Koll is the great Mark by which Ships ftecr from the lle of Aunut and the Schaw to the Sound. The Courfe from Anout to the Koll is S.S.E. diftant fo L.s. In the Fair Way you have 20 to 24 Fa. 'tis floaler on the W. fide, and decper to the E. Ko you know the Courte by the Depth. There is but one dangerous place betwecn, and that is a Bank callcd Lewis's Gronild ; it lics from Allout Riff' S.E. by S . dift. 8 Ls . and from the Koll W . by N . $\boldsymbol{I}$ L. . Haflicin, which is the other Ifland in this Courfe, lies S.W. from Aluont, dift. it Ls. and W. by S. from the Koll dift. 9 Ls. 'ris deferibed in its place.

The Entrance into the Sound is between the Koll and the Coaft of Zcaluid; the laft is all clear, you may fail along by it cither from Anout or Haffelin in 6 to 7 Fa. excepr a imall Riff near Fithers $l$ illage, and there is 4 Fa. over that; and except Lapfind, which is a Riff that Ifretches off from Cronuburg Caftle N.W. but kecp in 7 to 8 Fa. and you go clear of it. But if you come from the holl into the Somd, you are out of the fear of Lap faild: Then you mult give a Birch to the Swedifh Shore, to avoid a long I.edge of Rocks called the $S_{u y y}$ Boden, they lic 3 Ls. in length, and diftant from the Shore 2 ling li/b Miles : The thoaleit of them is juft thwart of Hielmes Filat; bring Ween Ifland open with the Cafile of Elfencure, and you go clear both of the Swiyn Doicen Rocks and the Latffand too.

If you are bound for Copenhngen, oblerve the following Directions, taken by an Engli/l) Survey, and by Order of the Eaglifh. Admirals when in the Baltick with his Majcity's Flece.

## Sound or Eaft Sea, from the Kol up as bigh as t, and Falfterborn Riff.

From hence to $\|^{*}$ :rsbergen is 5 I s. S.E. by S. in a Bay, and due S. Moufferfond being on a River which runs into that Bay; and before the Bay lies an Inland called Giddero. There are feveral little Towns in this River and Bay, where Veffels go in to load; but a Stranger thould take a Pilotat Giddero.

South of this Bay lics Valkenberg River; on the N. Bank of it is an Ifland called Mowiftong, and S. of that another called Tiylow, diftance ${ }_{3}$ Ls. There is a high white Hill here called

## Directions for Sailing in or out of the Sound or E Steden Point, and Falfter



F you are bound from Elfeneure into Copentsagen, you mult kecp the Lead going, giving the Main a Birth : When you come up as high as the N . cnd of the Middle, the Mark for going in is, the higheft Stecple of the City, open alittle to the caltward of the great Church joinng to Tycho Bralbe's Tower, or in one with it, and it will then bear S.W. Or fter in with the northermoft Wooden Fort, giving it a Birth when you come near it. If you anchor in the Road, bring the northmoft Fort to bear W.N.W. and the other S. by W. or S. half W. in 7 or 8 Fa. there you'll have very good Ground: But if you are bound up, therc's a large white Houfe, that flands near the End of a great Wood to the northward of Copenbagen, which appears as if it were in the Wood. As you fail up towards the Ca/per, bring the faid white Houfe, or the fivelling of the Woodend, on the northmoft wooden Fort, or a little open to the northward, which will then bear N.N.W. half W. This Mark will carry you into the beft of the Channel, as far as the Calper Buoy. When you are a-brcaft of the S. end of the Midille, you'll have the twe higheft Stecples at Copenbayen in one, or but a very fimall diftance open, and will then bear $W$. by $N$. threc quarters N and a Church which fands inland to the fouthward of Copenbagen IWood, a Sail's breadth open withour, or to the northward of the northermoft W'ooden Fortt : There's a Bank almoft Mid-Channel W. half S. from the S. cnd of the Middle, on which there is but 17 or 18 Foot Water. If you are in a great Ship, you mult keep to the caftward of it, for it is neareft the $W$. Shore: bring the faid white Houle near the Wood, two Sails breadth to the weftward of the northmoft 11 codich Fort, and the Spire of the Exchange, and a Windmill that flands on the Works of the City in one, or the Spire a little open to the fouthward, which will then bear W.NW. one quarter W. and that Courfe will carry you right on it. But in coming from Elfencare and bound up, if you will fail thro' the outer Channel or Flewill. Deep, you muft kecp the great 'Trec that ftands at the N . end of the Town of 'Draco,
half way Town, till and then fa as the $C_{a / f} p$ Soutbolinc, it. When Wood) is ter ${ }^{W}$. and is Foot W 7 Fathom,
To knol mult bring Toü, whi lcading Mar Traco Tred ftcring S. a lics from 9 The Mark Draco, wh Grounds in 26 or ${ }_{27} \mathrm{Fo}$ S.W. half s Buoy to th The Mark E. and of Draco /Fod which will when over there is but steder Poin

If you art Acrborn tow 5Fa. or 4 Churches at then you it bring the 0 called

Swidifh, Shore, to avoid a long Ledge of Rocks called the Suiyn Boden, they lic 3 Ls. in lengeth, and ditant from the Shore 2 linglifh Miles: The thoaleit of them is juft thwart of Hichencs Fiat; briug Wer'u Iflud open with the Cartle of El/weure, and you go clear both of the $S_{z u y n}$ Poden Rocks and the Lat'find too.
If you are bound for Copenbagen, oblerve the following Directions, taken by an Eugli/h Survey, and by Order of the EitgLi/h) Admirals when in the Baltick with his Majclty's Flece.

## Sound or Eaft Sea, from the Kol up as ligh as it, and Falfterborn Riff.

bagen, Tain a N. and higheft dof the c with crmoft it. If o bear r S Fa. bound id of a ppcars Ca/per, od cud, north. rk will Calper Midulte, nic, or by N . to the ithour, Iherce's of the you are or it is car the thimoft Windc $\mathrm{S}_{\text {pirc }}$ r.NW. on it. ill fail cp the Draco,
half way between the fingle Houfe and the End of the Town, till you come up as high as the S. End of the Midulde; and then fall by the former Marks, till you come up as high as the $C a / p$ er Buoy. You muft have a very great Regard to Southoome, for there are feveral Hooks and Over-falls lying off it. When the Tree or Two Trecs near Draco (not Draco $H^{\text {rood }}$ ) is in one with the Houle, and bears S.S.W. one quarter ${ }^{\mathrm{W}}$. and Soutbolme long Barn E. half N. you'll have but ${ }_{11}$ Foot Water, aud a Cables length to the weftward 6 or 7 Fathom.
To know when you are a-breaft of the Cafper Buoy, you munt bring Thornly Church open with the W. end of Caftroup Towil, which will then bear W. one guarter $S$. Then for a Icading Mark to kecp clear of the Cafper Sand, you muft bring T)raco Tree open to the weftward of the fingle Houfe; and ftecring S. and S. by W. you go fairly to 7) raco Buoy, which lics from Traco Town S . three quarters W . 2 or 3 Miles off: The Mark for that Buoy is the haid Trec over the W. end of Draco, which will then bear N. half W. Coming over the Grounds in the beft of that Channcl. you'll have at mon bue 26 or 27 Foot Water. From Draco Busy to Stcden Point is S.W. half S. diftance 5 ; or 6 Leagucs ; and from the fiad Buoy to the Bank call'd Brack Grounald S.E. 5 or 6 Milcs. The Mark for the Faid Bank is Copenbagen high Spire over the E. and of 'Draco Town, and the King's Comury Honfc on 'Drace IV'ood, or open with the W. end oi' the laid Wood, which will bear then N.W. by N. and the high Spire-Stecple when over $\mathcal{P}$ )race N.N.W. one quarter W. On this Bank there is but 10 or in Foot Water; it is a Mile long or more; Steden l'oint be.rs off it S W. and Falferborn Cburch S.S.E.
If you are paffing the Sound, intending to go about FalAcrlym towards the Baltick, come no ncarer the Riff than 5 Fa. o: $4^{\frac{1}{2}}$; keep in thefe Soundings till you bring the two Churches at Fialfociborve in onc, bearing NE. fiom yout; then you may bear away to the caftward, in 6 Fi. till you bring the Church on the Point N. or N. by W. from you: Then

Then you are quite pant the Riff, and may borrow on the Main as you pleale.

If you are bound in to Landfcroon, which lics againft Ween I/land, go in between the two Beacons, which fland upon two Points of Sand fltetching off into the Sca on cacli fide of Laindicronn. Being come from the northward, and got about the Point that lics on the N. fide of the Harbour, you will fee a little Church on the N. fide, clofe to the Sca, and a little farther into the Land a large Country Scat; briag them into one, and you go m right with the Point, and anchor in 3 Fa . under the Caftic.

If you are bound to Ellage or Malnoe, take your Courfe
from 1 of $M a l$ till yo may all

## Sailing Direitions for the Coaft of Mecklenburg, fr forzward to the Ports of Dantzick and Koning: oin $t$ Wybourgh on the Coaft of Finland.


ow on the from the Ifland of Ween S.E. by S and you will fee the Stecple of Malmoc before you: You have 7 to 8 Fa. in the Fair Way, till you are thwart of Southolme ; then it is 5 to 6 Fa You may anchor any where before the Town in 3 to 5 Fa .
N. Is. Here is no Harbour for great Ships, or Shelter from
N.W. Winds, which blow right in.

There is no Place of any ne ce between Mainoc and Fabferborn Point, but they go his way from Elboye S. by Southolme to Steden Point on the llland of Meuit: Southolme is all foul and dangerous.

## ecklenburg, from Lubeck to the Ifle of Rugen, and

 and Koningsberg ; with the Gulph of Riga, and Finland.he Courlic
IF ifinar nough for
the Mouth $r$ than this, ter the firft

From the ance 7 Ls . ltance 8 Ls.
call'd Rob m the Land Robbenc/s fide next the Shore
calld the d of 'Dorn-
buff Point. s. This is here is fterp E. and S.E. nd, and of d the l'oint
other three ald go in for this Point. laljlerborn
finond 3 Ls. S.W. from for Shclecr,

From Garflecad the Coant bears more E. to Rofelecad, diftance 21 Ls. no Place of note between. The mall Places of Lyda, Stolp, Serwevife, \&c. afford Pilots, but no great Ships go $m$ therc. From Rofioscad a long Poine of Land runs S.E. minto the Sca, the eaftmoft end of it is call'd the Heel. This Land makes the W. fide of the Gulpls of Dant zick; it is 8 to 9 Ls. diftance, the Shore very fteep, 24 and 30 Fa. clofe to it. North of the Hecl Point is a Flat, which ftretches off from the Land; but on either fide you may anchor in 22 Fa . and within a L. from the Land you have 40 to 60 Fa .

From the Heel you enter the Gulph of Dantzick; your Courfe to the $W_{\text {eflel }}$ is S . by W. You may anchor before the Port in io to 12 Fa. diftance from the Hecl; Ls. there take a Pilot to go into 'Dantaick, for the Land-Frefles make the Entrance uncertain.
E. by N. from Dantzick lics Komingsborg Deep, 13 to I + Ls. a fair white Strand all the way. At the Entrance to the Deep are two Beacons. Here make a Waff for a Pilor, for the Sands are fhifting, as at Dautzick, by the Frethes and the Ice; but you may anchor in the Road, Lockfted Point bcaring N.E. in 8 to 10 Fa . The lilots here carry you up to Pillam, and there you take Pilots again tor the Haaft, into either the 'Pregel to Koningsburgh, or back W. thio' the Frifch Haaft to the Weffel, and up to Elbing.
N. by W. from the Tecep is Bruftervort Point, diftance 3 Ls. nothing of note between, but Lockfteed Caflle, a Sea Mark. From the Point to Memel Decp is 16 Ls. the Courle N.E. by N. All this Coaft quite from Pomereit is a fair Strand, and very fafe. Here is another Great Haaft; wake a Pilot in: But when you are in, 'tis every where deep Water; you may ride where you pleafe, it goes away W. as the other.

There is nothing remarkable upon all the Coaft of Comblan, from Memel Decp to 'Der W'inda: The Courle is N. by E. 14 Ls. to Lybau, and N.N.E. to Winda ${ }_{17}$ Ls. The Coalt is fair, and good anchoring almoft any wherc. You may fand in for the Shore as you pleate in 4 to 5 Fa . or keep off in 9 to

Fonll lioftai $n$ the entrance into Straelfond calld the $\therefore$ " is 7 l.s. and to the wettern Point of the lland of "Dornourn clote to Kugen it is 1 L. more.

The wettermott part of the Inc of Rugen is Tornbufh Point. South of this Point gocs in the 'Fctte', diftant 2 I.s. This is the Soutd which goes up to Straelfond. The Land here is fteep and high, yet there is good anchoring for E.N.E. and S.E. Winds in 3 and 4 Fa . 'Tis a clean even hard Sand, and of cyual depth. Bring the Church over the Point, and the Point N.N.E. and anchor where you pleale.

This is one of the four Points of Rugen; the other three are lilithond, \%dinond, and "ecert. If you would go in for Strach $r$ h, or thro the fotte, take a Pilot at this Point. From hence to Bornbolme is 18 Ls. E.N.E. and to Fialflerborn 14 Ls. N.N.W.
$W^{W}$ bitmond is 4 Ls. N.N.E. from Tornbufle, \%afinond 3 Ls. E.S.E. from Whitinond, and Y'ort 4 to 5 L.s. S.S.W. from Folinozd: If you would go into any of thete Roads for Shelter, make a Waall and fire a ciun, the Pilots will come immediately off, and you will find them neceffary, for the Ground is very uncertain and uncren.

To the fouthward of lecet gocs in the Ncü Decp, which carrics you up to Stetul You may get a Pilot at the Peert to carry you over the Bar. At the N. entrance of the New '7)eef, being over the Bar, you have 4 to 5 Fa , go S.E. to the Entrance of Pcen, and take another Pilot at Roeden to carry you up the Madt to Stettll.

Here are levaral Channels which are very helpful to the Navigation and Commerce of thefe Parts. i. The Swin which lics E trom New Deeps I.s. and runs into the Haaft, oppofite to the Mouth of the Oder which comes down from Stcia.
2. Cammin, which is 5 Ls to the caltward of the $S_{w i n}$, and is but a Sound, tho looking like a River.
N. B. Thete two, as alfo the gect, go into the Great Manft.

The Coaft of Tomeren begins at the Mouth of Cammin Sount, and from the New' Decp it lies E. to Colberg, diftance 17 lesuncs.

Here lics a Bank 5 l.s. from the Land, having 7 Fa. Water. When the Point of fifinond bears W.N W. Tent W.S.W. and Rough, Ifland S. then you are upon this Bank. Between Fafinond and the Bank there is 12 to 15 Fa . but on the Coaft not above 4 to 7 Fa a great way off at Sca.

If you are bound to Colbcrgen, take a Pilot, the Entrance being difficult. From thence the Courfe is E.N.E. 3 Ls. to Coflin, and rhence to Garfbrad N.E. and N.E. by E. 9 Ls. Berivecn them is Ruscrädld, on the River IHpper: If you would go in there, you muft take a Pilot alfo.

Ls. a ant white Stran ant the way. At the Entrance to the Decp are two Beacons. Herc make a Waff for a Pilor, for the Sands are fhifting, as at $\mathcal{T}$ antaick, by the Frethes and the Ice; but you may anchor in the koad, Luckjtecd point bearing N.E. in 8 to io Fa. The Piots here carry youtup to $\%$ 'illaut, and there you take Pilots again for the Maaft, into cither the 'Pregel to Koningsburgh, or back W. thro' the Frifib Haaft to the Weffel, and up to Elbing.
N. by W. from the Teep is Bruftervort Point, diftance 3 Ls. nothing of note between, but Lockfteed Cafte, a Sea Mark. From the Point to Memel Decp is 16 Ls. the Courfe N.E. by N. All this Coaft quite from TPomerein is a fair Strand, and very tafe. Here is another Great Haaft; take a Pilot in: But when you are in, 'tis every where deep Water; you may ride where you pleafe, it goes away $W$. as the other.

There is nothing remarkable upon all the Coaft of Combland, from Memel Deep to 'Jer W'inda: The Courle is N. by E. ${ }_{14}$ Ls. to Lybau, and N.N.E. to Winda 17 Ls. The Coaft is fair, and good anchoring almoft any where. You may ftand in for the Shore as you pleale in 4 to 5 Fa . or kecp off in 9 to 12 and 18 Fa . The Land is generally full of Hummocks, and over-grown with Trees.

From 'Der Winda, to the Point of $\mathcal{D}$ omefnefs, or Donerzefs. is ${ }_{17}$ Ls. the Courtc N.E. by N. till you are off of Lafferoort. Point ${ }_{4}$ Ls. and then E.N.E. There is a Shoal off of Lufcroort, but you go over it in 4 to 6 Fa. The Land is fair and high, as before, and full of Trecs. Domeanefs Point makes the W. Land of the Gulpls of Riga.

Domenefs Point is oppofite to Oifel Ifland, diftance 6 Ls . the Inland bearing N.W.by W. from it. The Channel is broad between and decp, having is to 16 Fa . Water, but a very uneven Botton, and there are Dangers to be carctully avoided on the N. or Larboard-fide, for all the Shore of the Inand Ocfel is cover'd with Riffs and Shoals. Firft there is a great Riff runs off S.by W. and S.S.W. into the Sca, at leaft ${ }_{3}$ Ls. 'tis very dangerous, in fome Places above Water, fome 2 to 3 Fa. under Water, very uneven; and to the W. are many uncven Grounds and Overfalls, fo that 'tis a terrible Coaft in bad Weather.

If you come out of the Sca, and are bound for Rign, make firft the Coaft of Courland about Der W'inda, or the Point of Lilferoort, and tail with the Shore, as above, in 5 to 7 Fa . till you are to the E. of Laferoort Shoal: Then keep no firther off to Sea than till the E. Point of Docmonigh bears E S.E. from you; and kecp that Coarle till the E. fide of the S. Pomt of the Illand Ocfel bears N.N.E.

The Chanuel is decp, tho the Bottom uneren off of $D$ deme$n e f s$; and when that and the S. Point of $O$ fel bears N.W. and S.E. then in the Fair way, you will have is Fa. and then opening the Gulph of Riga, you come into 20 to 24 Fa .

There is alio a Ruff at the Point of Powncisf, which runs out $I \frac{1}{2}$ l. give ita Birth, and you may rumby it from the W. with your Lead in 6 to 7 , and to 10 Fa. as Wind and Wea-
${ }^{*} \mathrm{~L}$ ther

## -Directions for Sailing on the

ther prefents. When the Point bears S.S.W. then you are on the W. fide of it; when it bears S.W. by S. then you are thwart the lount of the Riff; and when it bears S.W. by W. then youare clear abour it, and may fland away for Riga S.E. The 'Pont of Domefines and Rigalie S.E. and N.W' diftance sol.s.

On your Sratboard-fide in this Courfe lics Kourrouick Ray, and a loint with a tmall Life betore it ; but you may an by is in 6 to -Fa , wecther have you any need to fland fo far into the Bay, menes forced in byN.E. Winds; and even then you may anchor any where with fatery in very good Ground, and what depth you pleaic, from 6 to 22 Fa .

Coming from kigh, the fame Dircetions revers'd will be your Gmis. To avod the Riflo of Dome/itef, it you are at anchor muder it, kecp away N.N.E. and N.E. by N. and you run along by it come no ncarer than in 9 to 10 Fa.
S. by N. caitcrly from \%amefinefs, diftance $S$ Ls. and N .
 a.e.e. $1+$ les y young ran round it any where, only oblerve to come no nearer than 6 Fa. All the W. fide in particular is foul rocky (iround; there is a little Flat half a League S.S.E. from the S. Point, where there is bur one Fa. Water: 'Iake the Soundings of the Shore in 6 Fa and yourun within it ; orkecp in $S$ to g Fa. and you are clear without it : Bcing paft it, cither toward Rige or the $N_{i} / \sqrt{s}$, y ou have 23 to 24 Fa. in the Fair way.

The Port of Rige, that is to fay, the River Dwina, is what they call P'ilotsW'ater: that is, the Land-frefhes and Drifts of Icc in the River are fo great, and the Stream fo ftrong, that the Sands and Shoals are always fhifting and uncertain.

From Rigia the Courfe is N.N.E. and N E. by N. to Pcrman, difance $=5$ Is . There is a fmall Port between calld Lemfale', or Salis, within a River: Take a Pilot if you would go in there, as alio at Pernare.

Abundance of lflands, great as well as finall, lic in the Neuth of the Gulph of Kure ; they mult be taken notice of, this being a Port of much Bufinefs.

The tland Ky: lics offor RigaN. by E. diffance 1 ; Leagues, and fion $R$ and Ifand E. by N. 7 Ls. and the fame diftance tomachis.NW. by $W$; 'tis 2 L.s. long, and all foul about it : The Fair way between it and the Coaft of Livonia has 8 to © Fathoms.

Arwirick is a fmall Ifland under Oefel, it lies N.E. from (7)mpficefs, diftance 7 Ls. and N.W. from Round Iflaitd 8 I.s. all foul tharp ftony Ground abound it, with great Overfalls and ludden uneven Ground, $\hat{3}, 4$ to 5 Fa at once. It lies to the S. Point of Ocfel E N E. northerly, and W.S.W. foutherly, dift. 5 L.s. yet between both is a good Road for eafterly Winds. Under the S. Point of Oefel, the white Church bearing W. by S. from you, you may anchor in 7 Fa . good foft Clay; you may run along here in 7 Fa almolt clofe to the Shore. The E. Coaft of Cefel is flat 3 to 5 Fa .

From the S. Point of Defel to Arentsberg, againft Ambrook, is a fair Chamel of 7 Fa , Clay Ground: Kcep to the Ambrook

Iflands and anc this So pats th Graflic

Hers the Eal Main: to the S fige of der S. board 1 foutid. gocs by and un 1lland : fouct that ab lealt, a As $t$ this Po
Ls. NE nan, li natt, y

Ot Ls.'tis from Courfic the $R$ the firt

At Rovel, E. fron as the great 1 than : and fro

Bet bring Point you ar the C 3 Ls. from
S.E. fr other nough a bare on it ; fo dan Fro Courf on the

## Sailing on the Coafts of Germany.

you are cil yon are W. by W. - RigaS.E. V. ditance
wick hay, lay rin by fo fiar into then you ound, and
ill be your : at anchor run along
s. and N . If.und, dif: aly oblerse raticular is :ayuc S.S.E.
: Take the it ; orkecp ft it, cither ic Fair way. int, is what ad Drifts of Atrong, that tain.
to Pcinan, ld Lem falle', ould go in
lic in the 1 notice of,
is Lcagucs, ne diftance 1 about it : ia has 8 to
: N.E. from ad 1 lanid 8 cat Overfalls e. It lics to J. foutherly, terly Winds. aring W. by Clay; you hore. The
ff Ambrook, the Ambrook

1hands about i l. afunder N . and S: you may go round them, and anchor any where about them. There are two Shoals in this Sound, called Eaflt and Weft Grafs Gromeds: they that pals the Moon Sound, thould be caretul of them. Between Grafliolm and Ocfic are leveral Illands.

Here you go imto the Moonfound from the North, or from the Eaft. It is a great double Channd between Ocfol and the Main: the Fair Way lics from $\mathrm{We} \mathrm{f} / \mathrm{t}$ (irafs Ground S. by E. to the Shore of Oifel, 6 to 7 Ls. From Giralholm to the Patfage of the Moon Somed lic ${ }_{4}$ fmall Illands, cach a League atimder S.E. Ieave them not above a Cable's length to the Starboard fide; and you are then in the Fair Way of the Moonformed. There are two other Channels to the N.E. ward, one gocs by an Illand to the Cartle of Moonformd, but 'tis unfate and uncertain; the other lics to the Southward of the fame Illand: There is alfo another Channel, but 'tis narrow, and fometimes has only two to three Fa. The beft Channel is that above by the fide of $O_{c} f(c)$, where you lave 3 to ${ }_{4} \mathrm{Fa}$ at lcalt, and afterwards 6 to 7 .

At this E. cnd of Ocfil is a foul Riff called Pater Noffor; this Point lics off from Pernalt, call'd by the Sailers P'arma, s I.s. NE. Between the Ifland Kyand the Land, N.W. of Yernou, lic the Iflands of Manto and Surghotm. To fail into Pernai, jou muft take a Pilor.

Otsculholin is an Ifland N. by E. from Moonfound Point ; Ls.'tis bold, and you may hial round it, and anchor near it tate from N. and N.W. Winds. From this Illand to Nargen the Courfe is E. by N. diftant 8 Ls. becween them is a Sound called the Rige, making two Points, the Little and the Great Roge; the firft to the S. and the other to the N. of the Sound.

At the Illand of Narger take a Pilor to carry you into Revel, or to the Wolf, to avoid the Revel Stone; Wolf is E. from Nargent + Ls. the Revel Stone is between both, (jult as the Eddilfone lies at ' $P$ 'lynonth from the Rambead)' 'tis a great Rock about ${ }_{4}$ Foot under Water: Come no nearer to it than 12 Fa. It lies from the Wolf N.N.W. and N.W. by N. and from Nargen N.E. by N. diftant from cither about 2 Ls.

Betwen the Nargen and the Wolf is a broad rocky Shoal ; bring the S. Point of Narge" S.W. or S.W. by S. and the N. l'oint W.N.W. and go between Wolf Ifland and the Main, and you are clcar of it. From Nargen to the I land of Wranger the Courfe lics due E. dift. 7 Ls. and from the Wolf E. by S. 3 Ls. You may ride very lafe on both fides of it, lhelter'd from all Winds but the S. and S.W. which feldom blow there. S.E. from it lies Little W'ranger which is as dangerous as the other is fafe; yet on the S.W. fide there is good anchoring enough for E. and N E. Winds: Duc N. from Cireat Wranger is a bare Rock called the Cockfcarr, with a Tower or Warder on it; 'ris above Water, and you may go round it, fo 'tis not fo dangerous as the Revel Stone.

From the Wranger to the Road of Narva is 44 Ls. the Courfe gencrally E.S.E. and S.E. There is nothing of Note on the Shore of Eaftlund, or Eafthonia, all the way, excepr

The Illandry" liss off of Riga N by E. diftance is Leagucs, and tiom $K$ nind 1 hand E by N. 7 Ls. and the fame diftance fomanhis NW. by W; 'tis 2 Ls. long, and all foul about it: The Fair way betwecn it and the Coaft of Livonia has $s$ to s Futhoms.

Ahairock is a finall Ifland under Oefit, it lics N.E. from 7) omefracf, difance 7 Ls and N.W. from Round 1/aund 8 I.s. all toul harp . Lony Gitound abound it, with great Overfalls and fudden uneren Ground, 3,4 to 5 Fa at once. It lies to the S. P'oint of Oifel EN E. northerly, and W.S.W. foutherly, dift. 5 l.s. yet between both is a good Road for cafterly Winds. Under the S. Point of Ocfel, the white Church bearing W. by $S$. from you, you may auchor in 7 Fa . good foft Clay ; you may run along here in 7 Fa almott clofe to the Shore. The I. Coaft of Celt is flat 3 to 5 Ha

Fiom the S. Point of Uefelto Arcutsberg, againf Ambrook, is a fair Chamel of 7 Fa. Chay Ground: Keep to the Ambrook fine of the Chanuel two thirds, the Ocfelfide being foul. Aathtsoeg is a Town on the Oefch, at the Mouth of a Sound or Opening N.N.W. from Ambroik 4 I.s.

The lland of $O_{t}$ fil is almoft Triangular, the three Points extending far into the Sca; one S.S.W. one duc W. and one E. by S. The S. Pount is defcribed, and is called Swalveriort; the W. Point is called Honstfort, and the E. Point Pater. Nefher. From the W. to the E. Point is is Ls. but all foul, and the N. E. part minarigable: The W. Coaft is full of Bays and Crecks, fretciing froms.S.E. to N N.W. iz Ls. Betwecinthem arcewo phaces, $I /$ yck and Reck. where Ships load Corn andFlax.

Nortin Eatt of Oefel is the Illand of Dagcrort, of the like Trimgular Form, but not ncar to large: the two Points are diftane:l.s. Upon this Inand is a great high Stecple, or Tower, built ar the Charge of the Magiftrates of Revel, to give Notrce to Ships bound to their Port to kecp off: 'tis ficen a great way to Sca on cvery fide. The W. Point of this Inand is called Tagerort after the name of the whole, and becaule of the Tower which ftands thece. The N. Point is called Suburs Ne/s. diftauce betwecn is 7 I.s. E.N.E. Between them, almontmidway, is a long flat shoal runuing out into the Sca 5 Is. at Icaft NiW. but there istrom 3 to ${ }_{7}$ Fa. upon it, and then decpuing till it is lort.

Three Ls. N. and N.E. from the high Tower is a great funk Rock very dangerous, on whech you have but io Foot Water: A Ship drawing i foot flrook upon ir, and went off ngain, and immediately founding, found ; Fa. Water: the Tower was then S. and SW. from them.

Suturize/s, the N.N.E Point of Tagcroort, parts into two fimallcr Points, with a Riff from cach Point, and a fair Strand between, where is good anchoring, clean hard Sand, 4 to 6 Fa. Water : and a liete to the Weftward of the Weftermoft Boint is a very fmall Shoal, with but 2 Fa. Water. From this Ac/s to Otgeifloobin the Courle is E. by N. diftant 7 Ls and

: 15 Le.agucs, ame diftance al about it : miat has 8 to
is N.E. from und 1/and $s$ cat Overfalls ce. It liss to N. fouthicrly, .ftrly Winds. caring W. by t Clay ; you Shore. The
nft Ambrook, the $A m b$ rook ng foul. $A$ of a Sound or
threc Points $V$ and onc $E$. ;walveriort; Point Pater but all foul, 11 of Baysand 3etwecnthem orn andFlix. , of the like o Points are Stceple, or of Revel, to off: 'tis feen of this Inland , and becaule bint is called ctwecn them, nto the Sca 5 it, and then
sa great fimk Foor Watcr: ent off ngain, c Tower was
sarts into two 1 a fair Strand Sand, 4 to 6 e Weftermoft Watcr. From tant 7 Ls and are two fimall
than 12 Fa. It lies fiom the W"olf N N.W. and N.W. by N. and fiom Nargen N.E by N. diltant from cither about 2 Ls.

Between the Nargen and the W'olf is a broad rocky Shoal ; bring the S. Point of Narge" S.W. or S.W. by S. and the N. I'oint W.N.W. and go between Wolf Ifland and the Main, and you are clear of it. From Nargen to the Inand of Wranger the Courle lies due E. ditt. 7 Ls. and from the W'olf E. by S. 3 Ls. I'ou may ride very lafe on both fides of it, flactere'd from all Winds but the S. and S.W. which teldom blow there. S E. from it lies Little // 'ranser which is as dangerous as the other is lafe; yet on the S.W. fide there is good anchoring enough for E. and N E. Winds: Due N. from Cireat Wranger is a bare Rock called the Cockfarr, with a Tower or Warder on it; 'ris above W'ater, and you may go round it, fo 'tis not to dangerous as the RevelStone.

From the IVranger to the Road of Narva is $4+$ Ls. the Courfe gencrally E.S.E. and S.E. There is nothing of Note on the Shore of Eafthud, or Eafthonia, all the way, excepe three little Inands near Kock Harbour; but on the other fide of the Sca N. are feveral Shoals and Illands.

Between Monkwick Point and Wranger thofe three Inlands lic about half a L.cague from the Shore, very rocky and foul, tho the whole Strand befides is perfectly clear.

The Ithands and Shoals which lie off to Seaward are Eckliolm, Highland, the Clale Grounds, the Holts, Great and Little Tit $r$, and the Inand wit's a Mafl. You may kecp between all thefe Iflauds and the Shore on a clean Strand: From Wranger to Eckholm is all clear: ${ }_{4}$ Ls. E. by S. from Eckbolm make Telsiorough Caftle, the Courle is E. 5 Ls. there is a litele Shoal in the Fair Way 2 Ls. S.E. from Great Tutters, but there is 5 Fa. upon it.

Some Marincrs chufe to go from Wrauger to the northward of all thete Iflands and Shoals for N'arza, by the Ifland with a Malt on ir, and to to Highland: From the S.W. end of Mighland Ihand to Narva is is Ls. and this way 'tis almoft 50 Ls. from Wranger to Narva.

The Town of Naria lics upon a River, 2 Ls. within the Point. 'Take a Pilot at Mighland, if you come without the lllands, or at Telsburg if you come by the Coaft.

From the Road of Narva the next Point of Land is Ruflba$k \cdot n$ N. by W. dift. 5 Ls. and from thence to R/sodell Ifland, in the Mouth of the Harbour of $W$ Jbourg, is N.E. by N. dift. 23 Ls. Between thefe two are feveral Bays and fome Rivers, nor yer fully furveyed.
N. B. This Part is called the bottom of the Gulf of Finland; all our Pilor-Books are deficient here, this Pare being quite alter'd fince any Survey was made: for the great River Neva, formerly of little ufe, is now become noted for Bufinefs and Navigation. The Caftle of Cronfloot at the Entrance has been built, and the Mland fortify'd, and the Entrance of the River buoy'd and beacon'dup to 'Petersburgh, a Port and City not then
known

## Directions for Sailing on the Coafts

known or heard of, but now the greateft Port of Trade in the Baltick: a Plan of which River and City is hercto annex'd.
The Fort of Schanffermy is demolifh'd, the Royal Fortrefs of St. Petcrs rais'd on an Illand in the River, and the City of Petersbur ${ }^{\prime}$, built on all the Shores about it. As for failing into this Imperial Port, the carcful Mariner will not fail to call for a Pilot ; and the late Czar appointed a fufficicne Number to be always ready at Croinflvt Ciaflli' for that purpote.

Bcing art from Narz Port being

N. B. den, E. as vcys

## Sailing Directions for the Coaft of Sweden, from Falft tom of the Gulph of Finland exclufive; alfo the Ifl


you are bound from the Sound along the Coaft of Swedden, the next place from Falferborn 'Yoint is Ticllorg, or Elburg; the Courfe E. by N. diftance ${ }_{3}$ Ls. There is no Haven for great Ships, but you may anchor before the Town in 3 to 4 Fa .
E. from Trelborg is Yfted, diftance 8 Ls. There is a Shoal lies of the Coaft moft part of the firtl 3 Ls therefore be careful to kecp off in 8 to 9 Fa ar leaft: afterwards you may come into F. a a bold Shore. If you would go in at Yffed , make a Whaaff for a l'lot; it is a good River, and a Place of Trade.
from Y/fed, Gioesbeer T'oint bears S.E. by E. diftance ${ }_{3}$ Ls. there is a great Shoal runs off from this P'oint ncar 2 Ls. but youmay run over it in 6 to 10 Fa. When you pafs it in 10 1a. the Ilaud of Borubolm bears E. by S. or E.S.E. from you dithance 4 Ls and the Point of Sondbrammer will then lic due N. or N. by E. diftance 2 Ls. From Yfted the lland of Born1 oim bears S.E. by E. diftance 9 Ls. and from Falferborn E. by S dift. 22 Ls .
From Sibudbammer to Albuys is 8 Ls. the Courfe is 2 Ls. N.N. E. and 6 Ls. ducN. Allouis ftands upon a River, or rather feveral Rivers which come in there ; and this makesthe Depthsuncertain and hazardous; for fometimes here is 10 or 1 I Fa. Water, and at other times notabove 3 to 4 , which is occafion'd by the great Fiethes that come down thofe Rivers from the Mountains. There are alfo abundance of Rocks in the feveral Channels, fo that it is neceffary to take a Pilot: The Town of Chrif/ianf/adt alfo is up onc of thofe Rivers.
E of this River lies the Ifland of Hanno, diftance ${ }_{4}$ Ls. there is good Riding under this Ifland, and efpecially within ir, where you have 6 to 8 Fa. flelterd from loutherly and weftcrly Winds. Within Hanno gocs in a Sound to Carl/bavern and Sichsorg, but there is not Water for great Ships.
S. E. from Hanno lies an Illand, called by way of Eminence the Rock: it is indecd only one great Rock, with fone finaller Rocks adjoining; but 'tis fecn very far to Sea. This Rock lics from Albuys E . by S. diftance ${ }_{13} \mathrm{~L}$ s. and from Borabolm N.E. northorly 16 Ls. and from Sandhammer Point E.N.E. northerly 16 Ls. and from the 1 fland of Oelaud 10 Ls. There is no anchorine ncatethem, bat there is Depeh cnough to tail a-

In the Pa and of Oela Out lookers, it may be fo land, quite 1nand; yct clean, fo th from Oclana fo from anot it is furrounc where fome called the $I d$

This Sour there are ma Silluy, Vro you are bou for here are Water, and

The like $i$ than the ot There is n where the frightful Rod allo.

From sild by W. all the ble but by found, amon Barfound, a and to $N e w$ is 9 Ls, the the N. end o W. not mord If you ard muft take a Gotbland, a Fair Way to Fa. but no St

[^4]
## \% on the Coafts of Sweden.

Being arriv'd at R/oodel I/land, whether from High Illand or from Narva, take a Pilot to carry you up to Wybourg, the Port being difficult, tho very good.
N. B. Being now to give Directions for the Coaft of Sweden, we mult go back to the Sound, and come forward E. as we have donc for the German Coaft; all the Surveys fotmerly taken going that way.
en, from Fallterborn Point to Wyborg, at the Bote; alfo the IJlands of Oeland, Gothland, \&c.
oaft of oint is fance ry you al lies eful to e into Vhaff

In the Paffage out of the Channciof Calmar, between the N . end of Oelaind and the Main, likes another grear Rock like the Out lookers, but very much higher; 'tis called Swedes Yeaffer: it may be feen off at Sca a great way to the Eaftward of Oeland, quite over the Ifland, and looks like a Hill upon the lnand; yct it is not proportion'd in compafs, and it is all clcan, fo that you may anchor near it in 18 to 20 Fa . N.W. from Ocland, diftance 3 Ls. is the Channel of Idefound, called fo from another great Rock in the Sca named Idefoe or Idboe: it is furrounded with other Rocks, but efpeciailly on the N. fide, where fome appear above, and fome lic under Warer: they are called the Ideiouiks.

This Sound is alfo called the Channel of Wefterayk; but there are many Inlands, Harbours and Loading-places in it, as Silbuy, Wrowenburg, Flourby, Stixholm, and Schelf, ir. If you are bound in to any of thofe places, take a Pilot at Deland; for here are abundance of Rocks, fome above and tome under Water, and no Stranger can find the Channel.

The like is to be faid of Barfound, which is fill more difficult than the other, having feveral Rivers and Sounds within it: There is n a place in the whole Baltick more difficult, or where the Channcls run in among fuch an infinite Number of frightful Rocks; and that in the Rivers the Depth is uncertain alfo.

From Silbuy in Wefterwyk Channcl to Schelfiyr is 7 Ls. N . by W. all the way among a Labyrinth of Rocks, not practicable but by Pilots: likewife from Wefterayk Chanuel io Barfonnd, among the fame Rocks. You may fail from Silbuy into Barfound, and quite up to Soutis Koppen, to North Koppen, and to New Koppen. From Weflerziyk Channel to Bar found is 9 Ls. the Courfe uncertain beciulc of the Rocks: and from the N. end of Oeland to Bar fonuld, is 15 Ls. the Courie N. by W. not more northerly, for tear of the Idebanks.

If you are bound in for Soutb Koppen or North Koppen, you muft take a Pilot; and you had beft do it at Oelaid, or at Gotblazid, according to the place you come from. In the Fair Way to them is very decp Water, fometimes I8, 20, to 30 Fa. but no Stranger can ftir without a Filot.

When you arc pals'd thefe difficult Bays and Sounds, the
 ratRuers which come in there; and this makes the Depthsuncertain and hazardous; for fometimes here is so or a f lia. Water, and at othertimes notabove 3 to 4 , which is occafion'd by the great Freches that come down thole Rivers from the Mountains. There are allo abundance of Rocks in the 'ícueral Channels, fo that it is neceffary to take a Pilot: The Town of Chriftianftadt alfo is up one of thofe Rivers.

E of this River lies the IMand of Hanno, diftance 4 Ls. there is good Riding under this Inland, and efpecially within it, where you have 6 to 8 Fa. fhelter'd from foutherly and weftcaly Winds. Within Hammo gocs in a Sound to Carlhavern and Silisborg, but thene is not Water for great Ships.
S.F. from Ilanno lics ati Ihand, called by way of Eminence the Rock: it is indecd only one great Rock, with fone timaller Rocks adjoining; but 'tis feen very far to Sea. Tinis Rock lics from Albuy's E. by S. diftance 13 Ls, and from Bornbolm N.E. northerly 16 Ls. and from Sand/bammer Point E.N.E. northerly 16 Iss and from the Ifland of Ocland 10 Ls. There is no anchoring near them, but there is Depth enough to fail abour them any where.
N. by E. of this Rock diftance ${ }_{3}$ Ls. is the famous Haven of Curcl/froon, which is the Arlenal of Sweden: the Channel is decp cnough for the biggeft Ship in the World, but the Entrance to difficult, that you muft take a Pilot: It is fully deferibed in the Plan hereto annex'd, drawn after the newelt and moft exaci Survey.

North from the Rock are other well known Rocks, called the Utklippers, or Outlyers, or Outlookers : they are not fo craggy as the Rock, but much larger, and many together. There are 2 or 3 other Rocks to the Seaward, but to the Land fide they are almoft all Rocks quite to the Main ; fo that there is no dailing within them.

Betwecn thofe Rocks and the South end of Oeland, goes in the Channel of Calimar, or Calmar Sound, which is at the Entrance abour 4 Ls. broad, meafuring from the S. end of the lland, to the Point off of Cbriffianople.

There are feveral Places of Trade within this Sound befides Cibriflanople and Calmar; but it is a trightful Channel for a Stranger, by the appearance of fuch terrible Rocks on both fides; tho when it is known, the Chanel has Water enough: but if you are bound in take a Pilot at Ocland.

The Mhand of Oeland is allo full of difficult Harbours and Roads on the fide next the Channcl. Ocland is a long narson Slip of Land, lying N.N.E. and S.S.W. parallel with the Coaft of Süciden; it is 24 Ls. long, and but $1 \frac{1}{2} \mathrm{~L}$. broad, in tome phaces lefs : there are 18 fiquare Towers built upon it, very uletul to the Pilots for Sca-marks. The E. Coaft is clean and bold, but the W. Coaft is full of Rocks and Dangers; and therefore a lilot is neceffary.

From the S. cnd of Oeland to the S. end of Cothland, the diftunce is 24 Ls. the Courfe N.E. by E. but the Fair Way between lics N.E. by N.
than the There is where the frightful R allo.

From $S$ by W. all ble but b found, am Bar foulud, and to Ne is 9 Ls. th the N. end W. not mc

If you: muft take Gotbland, Fair Way Fa. but no

When next Poiut an Illand the laft of ben Sounc. greateft in Haven far

Betweet Sea called called the need to co

Landfor Point of $t$ from the diftance 2

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Duc S . the Ifland runs due W. from two Rocl and the choring o Great Ka 12 Fa . and the $P$ fidc of th
ner leve-cpthsunFa. Waion'd by c Mounal ChanCown of Ls. there ithin it, nd weftaven and
minence e linaller is Rock Sornholm J.E. norThere is : Chil a-
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From Silbuy in Wefferwyk Channel to Scbelfityr is 7 Ls. N. by W. all the way among a Labyrinth of Rocks, not practicable but by Pilots: likewife from Wefterwiyk Channel to Barfound, among the fame Rocks. You may lail from Silbuy into Barfound, and quite up to Soutb Koppen, to Nortb Koppen, and to New Koppen. From Wifferwyk Channel to Barfound is 9 Ls . the Courfe uncertain becaufe of the Rocks: and from the N. end of Ocland to Bar found, is 15 Ls. the Courfe N. by W. not more northerly, for fear of the Idebanks.

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When you are pafs'd thefe difficult Bays and Sounds, the next Poiut is Landfoort; it is 7 Ls. E. by N. from Havering, an Ifland at the Entrance into the Channel of New Koppen, the laft of the Chanrels above-named. Between them is Telgben Sound, being the Mouth of a very great Lake, the greateft in Swedin: at the Mouth of it is Trofa, with a fimali Haven farther up the River T'elghen.

Between this Sound and Landfoort lies a great Rock in the Sca called Hartfo; and E.N.E. from that arc a Clufter of Rocks called the Heyrbams : thefe are foul far off, but there is no need to come near them.

Landfoort is a high Point of an Inland, which makes the W. Point of the Leith or Chanvel of Stockbolm: It lies W. by N. from the Dantzick Gat Point, and from Oeland N.N.E. diftance ${ }_{24}$ Ls. but the Fair Way from Oeland lies N. by E.

Here they ufually take a Pilot for Stockbolin; for the chief entrance gocs in clofe by the Point, between the Rock call'd Karwafcu and the Shore; about a Mile and half from the Shore is a fair Channel. I do not defcribe thefe Rocks, nor any other in this River or Channel, which is perhaps the beft and yet the moft nice and difficult in the World; becaufe the careful Mariner will always take a Pilot for fuch an extraor. dinary Place.

Due S. from the Entrance into the Channel of Stockbolm, is the Ifland of Gotbland, diftance 29 Ls. There is a Stone Riff runs due S. from the S. end of it 2 Ls. into the Sea; and N. by W. from the fame Point are the Girat and Little Kiarils, two Rocks lying at half a League diftance from the Shore, and the fame diftance from one another: There is good anchoring on cither fide the Leffer Karel, in 8 to to Fa, but the Great Karcl is foul, you mult come no nearer to it thall it or 12 Fa. Between them you have 13 to $1+F a$. Between them and the Point is Bofwick: But there is a foul Riff on the $N$. fide of the Entrance; keep ofl it in 9 Fa at lealt.
N. by E.

## Diretions for Sailing on the C

N. by E. of the Ketrels are Weftergoe, and the Ifle of Reefbotim. Theftergoe is a fimall Haven, and gocs in about half a League S. of the great N.W. Point of the Illand. Two Ls. firther $N$. is Hisby; which has been much larger than it is, the Rains lying offlike Rocks in the Sca. At the N. Point of the Ifland is a litale uninhabited Illand call'd Fare; it lics from Wiroy N.E. by E. diftance 10 Ls.
N.E. by N. from this Ifland lies Cothland, diftance 9 Ls. 'tis a timall lland, and there is good anchoring on the N.W. and S.E. fides of it, but all Shoals and Riffs, at the N.F and S W. cnds. On the E. fide of Ciothland are feveral good Havens and Roads, as under llozbrough Tower, Sleat Haren. Which is a vory good Port, Eidfor Gurn, Ny Garn, Sandouick, Numick, near Holm, and Heligholin: You may have Pilots to direct where to ride, and it is not lafe to venture without.

From Stockloth northward lics the great Boten Sicu, or North Beden, as the Surdes call it ; we call it the Bothonick Cimpl, from its Situation on the E. fide of the Country of Bothin in Suede\%.

We have no Surrey of the Coaft in this Gulph, notwithftandmeg there aremmy good Ports and Havens in it on both fides, and feveral large Rivers cmpty themfelves into it, and nowithtanding it lics near 400 Miles in length : But as there is no Navigation for great Ships, the depths being uncertam, and the Entrance as it were blockd up with Illands and Rocks; to our Pilots have not given any Chates of the Coaft, as being of no ule to us who never fail thither:

From the Shore of Sacden towards the Inc of Adand lic many Ihands and Rocks, and between them is the chicf Paffage into the Bothnick Gu'pl). This Paffage is call'd Aaland Hefft ; fmall Veffels go in and out there : But the Courfe of cur Navigation lying over on the S. fide of thote Illands towards Fimlima', our Survey follows the fame way.

No Stranger will pretend to fail from one Place to another on this Coatt without a Pilor, fo that we need not attempt to give Directions; nor would it be practicable among an hundred Thouland Mands, which another Writer fays is not half the number: We thatl therefore only deferibe the Courfe in thort.

We fuppofe a Ship bound from Stockbolm to Abo, and along the Coatt of limland to itybourg: The Mafter to be fure theses a lilot to bring him into the Sea from the Coalt of sacader.

Near the call'd live: Ottoy, dittan $4^{\text {los. by agr }}$ come to the Or from 1 from an Itha Channcls, ac quires. Tho Allo into th the Starboart Aho is N. an

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> N. B. Fr Highle

Five Ls. Rocks, call thele Rocks ly ; and 7 I Sound goin Coalt of th brought tog

# Scilinns Directions for the Coaft of Norway, from the and forward to the North as 



Thwart you, and or ford: Tak when you a

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## ailing on the Coafts of Norway.

Near the Entrance into the Madt of Auland is an Ihand calld Sirk: From hence the Courfe lics E. to the Ille of Ottoy, diftance 9 Ls. From thace the Courfe is N. by F. $4^{\text {l.s. }}$ by a gerat namelefs Itland; and then tecering on E. you come to the Chancl of dibo.

Or from Erk lland is another Channel calld Corp Somad, from an thand calld Coip. The Pilots take cither of thete Channcls, according as the Place from whenee they come requires. There is alfo a Channel this way thro' the Leith of Allos into the Botbuick (intpl, leaving the Illand of Vtios on the Starboard fide. The Courle from Ottey to the Chanel of Aho is N. and N. by E.

From Aoo the Courle is F. and E. by S. thro' another Channcl to Rousts I/fand, and to the weflward to the Channcl of Luys. Thwart of the Channcl of Luys you may fee the Hills about Rewe in Licfland. The outmoit Rocks of this Chanel are E. from Cotol, diftance $=0$ Ls. all the way full of Rocks, Illands, and broken Lands, fo that no Ships dare go among them.

From this Channcl to the Channel of Elfiuswos is 16 Ls. the Courfe E by N . The Pilots themfelves have fometimes difficulty cnough to get out from among thole Scars, as they call thein, if a Storm happens but to have carried away fonce of the Warders or Marks.

From the Channel of EI/Maros 'tis in Ls. to Pelting Sound, the Courfe E.S.E. This Chanacl is fhelterd by fo many Rocks on cach fide, that they are like a Wall, fheltering you from all Winds: They thoot away from the Sound off to Sca fouthward, and are there calld the Pelting Scars.

From thence it is 5 Ls. to 'Putsfugre' ; this is a great Rock in the Sca, not a Port or Sound.
> N. B. From the Putsfigie Rock you may fee the Inlaud of Highland off of Nidica, diftance 6 Ls.

Five Ls. to the caftward of Putsfagre are a Clufter of fimk Rocks, call'd Epcls Scaren, that is, the Pipels Rocks. From thele Rocks to Gioe Scars is 9 Is. the Courfic fili: ... northerly; and 7 Ls. from thence is Rlodelel, at the Mouth of the Sound going into Wybourg, and where our Survey of the S. Coalt of the Baltick ended. And thus the two Coalls are brought together, and the Account of the Baltick cluted.

## way, from the Rocks of Maelftrand to the Naze, the North as far as Bergen.

Pater horc is From s. and N. by a grcat

Thwart of Oxeford you fee the Drommel-bills W.N.W from you, and on the E. of the 'Drom Sound is the Haven of Oweford: Take a Pilot in there, becaufe of many fiunk Rocks; when you are in, there is good anchoring in $=0$ to 25 Fa .

When the Drommels are N.W. and N.W. by N. from you, then you are thwart of Mardow, and to the coftward of Murdow along the Coalt of limland to $1 /$ yhourg: The Matter to be liure

## Sciting 'Dircctions for the Coaft of Norway, from and forward to the North a



Ae/frand lies to the S. of the Rocks call'd the Tlater Nofler's. From Fidrder Ifland hither, the Shore is bold, and good anchoring in is to 40 Fa. From the Pater Noffers to Harmin-bead is 5 Ls. and theace to South I Wixtlotinn 6 L.s. The Courfe is N. and N. by W. Betwen Harmen Sound and Maclftrand comes in a great River ; the Opening is calld the Kecer Sound navigable far in : Bur yea mult take Pilots.

The /f axhotms are two Inlands Nort/ and South, lying far withn Land in a great Sound. From the South IV 'ix.golm to Acker Sound is 6 Ls. N.W. by W. Thence s Ls. N.W. to Ottom, which is another Sound.
W. by N. from Acker Somud is the Siffers I/fand, diftance 4 Ls. Behind the Siffers lics Grofuick, a Port for loading imall Fir-Ware, as allio at Shithill; but you muft take a Pilot to so in.
N.W. by N. from the Siffers is the Inland of Baff, diftance 5 I.s. To the E. of the Siffors is the Haven of Elfang. Take a Pilot ar the Sificis to go in there.
From the Balt to the Point Roge the Courfe is N.N.E. diftance 5 I.s. there is a plain Strand on the E. fide of the Point, with good anchoring; if you are bound to the Soen Water, or Copperwick, (that is, to Dram) take a Pilot at the Point : From Farder to Lacruich is 4 Ls. the Courfe W S.W. and to the $B a / l$ is 5 Ls. N. by W : Lacrwick is a large Sound, haring many Buoys andCrecks, where they load Fir-Timber and Deals: You may have Pilots at 'Point Roge, or at Farder, which is frequent in a Place fo difficult

The Ne/s is a Land behind the caftermoft Point of Long Sound; there is a good Haven, and caly to run in : So you nced no Pilot there.

Long Sonnd is one of the belt Harbours of all Norway: it liss a long, Leaguc from Yoffers Ifland N.N.E: Before it, there lies a high round Rock, whercon there is a Warder, or Mark 'Tree: King's Hawen is the fouthermoft Channel of that Sound: Youtakc Pilots at Goffers Ifland, to carry you to all the Harbours in Long Sonnd, which are very many. Among thefe are Eafl Kice,' 'W'eft R'iul, Abbeford, Saudford, Longen', and Oreford, and many more, all Loading-places, tho bur finall Towns

Thwa yon, and ford: ' when yo

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River ; it due E . Thwart but in $t$ Bufincts, dow Tin twecn coffary, Kерен them loa
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in llort. Abo, and to be fiure Coalt of
thele Rockso Gesin, y Rocks to Scars is 9 I.s. the Courfe flll E. northerly ; and 7 Ls. from thence is Roodet, at the Mouth of the Sound going into Wybourg, and where our Survey of the S. Coalt of the Baltick conded. And thus the two Coalls are brought together, and the Account of the Ballick cluted.

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is N.N.E. ide of the the Socn lot at the ic $W$ S.W. ge Sound, ir-Timber at Farder,

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When the Drommels are N.W. and N.W. by N. from you, then you are thwart of Mardow, and to the caftward of Mardow gocs in the (Drom Sound, diftance $\frac{t}{5} \mathrm{~L}$. Here aifo are feveral Channels to run in, and you will find it abfolutely neceflary to take a Pilot.
N. B. The Warders mention'd fo often in the Pilot Books to be fece on thelc Coafts, are certain grate old fingle Fir Trecs, or, for want of fuch, large Polcs, left upon Hills and other rifing Grounds, as Marks to kiow the Land and the Sounds or Harbours by, as the Stecples and Towers are in other Places.
N. B. Note alfo, That the Word Sound is ufed on this Conft for any Opening of a River, or any Gulph or decp Inlet of the Sca; the fame as are "Teeps on the Coaft of the Eyder, the Elbe, the $V^{\prime}(f i r$, \&ic. and the Galphs on the Coalts of Frauce, Spain, Italy, \&̌c.

Kïk Sound is one of thofe; 'tis the Opcing or Mouth of a River; 'tis caltwards from Mar dow, and half' a League from it duc E. is the Haven of He/Juefs, near which are two Wardeis. Thwart of the Warders you have from 50 to 70 Fa. Water, but in the Haven yo to 35 Fa . This is all a Place of great Bufincts, and frequented by a world of Ships for loadng atudow Timber, Deals, E8c. Here are feveral large Sounds betwecn Kirk Sound and the Nacs, for all which Pilots are neceffary, tuch as Hammer Sound, Old Hill Sound, Wolf Sound, Keperwick, Fleckery, Holy Sound, and Scar Somnd, moft of them Ioading Places.

From the Naes, which is the Southermoft part of Norwas in the North Sea, the Coalt lies at firft Weftward by the Land of Lceft; but Enftward it flectches without the Rocks, till you are paft the Ifland of Fleckery E.N.E. and from Fleckery N E. to the Loug Sonnd mention'd above, diftance in all $26 \mathrm{I} . \mathrm{S}$. The Land is full of ftecp and ftony Hills, and the Sea of frightful Rocks and dangcrous places; but among them there are abundance

## Directions for Sailing on the Coas

dance of good Harbours, very fafe anchoring, and Roads flecter'd from all Winds, with deep Water to the very Shore fide; which makes it, as 'tis full of Trade, very convenient for lading Ships in almoft every Creck, but no ftirring without a Pilot.

The firft Haven to the caftward of the Naze is the Cow and Calf, called to from two high Mountains, one bigger, the other lets, within the Port. Here if you make a Sigmal, the Pilots come off immediately.
$N . \dot{B}$. The Tides keep no certain Courfe along this Coaft ; fometincs there is a ftrong Current Weft, fo hard that a Ship fhall fcarce be able to ftem it with a frefh Gale from the S.W. This is ordinarily in the Spring; the nearer the Land, the fiercer it runs : Yet with all this Current herc is little or no fivell of a Tide.
$N$. B. This is the fame Current mention'd before, which fers out from the Bclt, and fhoots out from the Schaw to the Coaft of Norway N.E. and then turns along the Coaft towards the North.
W. from the Naze are the two Sounds or Havens of N. $w$ and Old Siloe: the Entrance into the firt is called the Eaft Gat, and the other the $W e f t$ Gat. If you are bound up to cither of them take a Pilor with you.
W.N.W. from the Naze the Coaft lics by the Land of Leeft to Hittero, diftance 5 Ls. To the S. of Hittero is the Entrance into Witford N.E. and to the northward into Bergfound E.N.E.
N. from the Ifland of Hittero is Soggendal, diftance 2 Ls. and N . from that is Ekefound, diftance ${ }_{1} \mathrm{~L}$. and N . from that is Sirowack diftance 2 Ls. 'tis a Haven far in. Thwart of it is a great Rock funk 2 Fa. therefore a Pilor is neceffary.

Six Ls. from Sizowack is fedderland: you go firf N.W. by N. 2 Ls. to 'Point Walbei't, and then N. 4 Ls. to $\mathfrak{F e d d e r}$. Land; ' 'tis a good Coaft and clear, excepr a fmall Riff of Sand to the N.W. of the Rock called the Veetfone. This Vectfone lies 2 Ls. from the Shore, diftance from Point $W$ albert 5 Ls. N.W. Between them and the Land, to the S. of the $V_{\text {eet }}$ Rock, is a Ledge of low Rocks, called the Rut : keep fomething Weft till the $V$ eet Rock appears a little longifh, not round; then yougo clear of the Rut Rooks.

N . from the Veet lies the ifland of Wittings-Eye, diftance 2 Ls. and N.N.E. another called Sibrichfone, diftance ${ }_{4}$ Ls.

Within the Veet lies the Stavanger Sound: you go in N.E. between the Vect Rock and the Main, leaving the Rut Rocks on the Starboard fide. The Veet Rock is a Guide into the Stavanger, and into the Tongenefs Sound, as alfo into Does. wick; and into Scutenefs Sound, and to all the Snunds on that fide : and Pilots are taken in at Tongene/s Point for all thofe Places.

From the Veet to Scutenefs is 5 Ls. the Courfe N.N.W. and from Scutenc/s W. by N. diftance 4 Ls. lic the Rocks called the Out $\mathrm{fe}_{\mathrm{f}} \mathrm{r}$, or Wifers, in Englifh the Outlookers, becaufe they are fecn a great way off, and are of ufe to be lookt out for.

Between above a Sh fafcly pass; there is a lit may avoid

When yo to Bommel N.N.W. di Iflands and is a clear into the Sca

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ds Ahelre fide; rlading 'ilot. ow and the 0 tal, the

## the Coafts of Norway.

Between IVybrants Eyc and the Main, the Channel is noe above a Ship's length broad: But it is decp, and you muy fafely pafs; only obferving, that on the E. fide of the Palfuge there is a little funk Rock: Keep clole to the Ifland, and you may avoid it.

When you are clear of Wybrants Eye, and would fail over to Bommel by the Blocks, the Courle is N.W. by N. and N.N.W' diftance 5 Ls. On the W. fide 'tis all broken Land, Iflands and Rocks, only about the middle of the Paflage there is a clear Channel, cither forward to the $N$. or W. by $\mathbf{N}$. into the Sea.

The Blocks are two Rocks lying even with the Water; go within them both, leaving them on the Larboard-fide (lailing to the northward) and run clofe along the E. Shore, between the Blochs and the Long-lolm, which is an Ifland lying in a Bay near the Shore.

The next great Mland to the northward of Scutenefs is the Bommel; and the fouthmoft Point of the Ifland is calld Bom-mel-head: it is a high fteep Point; and to the fouthward of it is Bomnel Sound going N.N.E. and S.S.W. 'ris a large Channel running out into the Sca. Bommel is all low plain Land, except the S. Point, and appears almoft perpendicular: It may be known by a ligh round Hill call'd Sack, which appears like a Sugar-loaf, or a Man's Hat.

To fail into Bommel Sound from the Sca, bring Bommelbead E.N.E. northerly from you, and fail in for it, and as you come near it, leave moft of the little Iflands on the Starboardfide, and run clear by it to the northward.

Being turn'd about Bommel to the caftward, you will find a Harbour call'd Bommel Harbour : There is a Rock juft before it ; and between the Rock and the N. Point of the Harbour is a funk Rock: Therefore to go in, keep between the S. Point and the faid Rock : And as foon as you are in, you may anchor where you pleafe; it is a good Harbour for all Winds.

About two Ls. to the northward of Bommel Harbour there is a great Sound call'd alfo the Bommel; it is the Mouth of two or three fmall Rivers which fall all into the Sea together, Againft it on the W. fide of the Channel, lics Munfer Haven, 'tis a good Harbour for foutherly Winds. You may anchor here in 10 or ${ }_{12} \mathrm{Fa}$. thwart of a little white Church.

Northward of Munfter Haven is Bule Harbour, diftance one Mile; here is good anchoring for foutherly Winds: And N. of that is Volyar Road. There is a little llland juft before it, where you may anchor on any fide of it, as the Wind is; for you may lail round, or go in or out on which fide you pleafe.

To the northward of Volgar Road, diftance 2 Ls. there is an Ifland call'd Bremer Holin; between them is a funk Rock: Keep the Ifland in the Entrance of Volgar River, a little open with the Point of Land on the N. fide, and you go clear. Here the Channel parts in two ; the caftermoft is calld the Old Leith or Channel, and the other the New: The Old Leith/ has not above ${ }_{2}$ Fa. in the deepelt, but on the E. fide of the Entrance you may anchor fafe for eafterly Winds.

But the New Leitb is broad and deep, and is a very good
L.s. N.W. Between them and the Land, to the S. of the Veet Rock. is a Ledge of low Rocks, called the Rut: keep fomething Weft till the Veet Rock appears a little longifh, not round; then you go clear of the Rut Rocks.

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N. B. Hither the Stream above-mention'd holds ftill; and tho the Water does rife and fall, yet'ris not at certain times: but from Stadeland N. to Trontbeim, the Tide rilics and falls by the Courfe of the Moon, as in England.

At the N. Point of Stavenger Sound lies an Illand called the Boek; berween it and Scutenefs goes in the Channel of Bergen. Scutenefs is a long narrow Illand lying along the Shore : it is about 4 Ls. in length; there are fmall Rocks and foul Grounds at the S. cod of it : but to keep clear of them, as you come out of the Sea, keep the Point of the Boek a little open with the South end of Scutenefs, and that will carry you clear to the Southward.

Berween Boek Harbour and Copperwick, on the Eaft fide of the Channel, is a great Sound, which in coming from the Southward fhews broader than the Channel if felf: but to avoid miftaking it for the Channel, keep the W. Shore aboard, till you are againft Copperwick; and then you are paft the Sound: Abour $1 \frac{1}{2}$ L. from Bock Ifland is Copperwick Bay : Therc is a fmall funk Rock ar the Entrance called the Copper Nail, but there is always a great Pole upon it, to know it by. About 2 Ls. from Boek I land to the northward in Bergen Cbannel, is Great Warder-Road, called fo from 4 . great Warders that are on Scutenefs. Here is a good Road, you may anchor in 6 to 12 Fa. fecure from foutherly Winds.

Half a L. to the northward of Great Warder:Road is No. toll, with a white Church and fome Houfes near it ; there is good auchoring for either northerly or foutherly Winds; alfo there is a Road within half a L. of the N. end of Scutenefs, where you may anchor in good Ground and io Fa.

There is a little Inand at the N . end of Scutenefs, called Hybrants Eye; where under a Rock there is good anchoring for all Winds, in any Depth you plafe.
two or Againft 'tis a go here in, Nort onc Mi And N . before Wind is fide you To t an Iflan Keep th with the the Cha or Chan above you ma But Channc little $\mathrm{B}_{2}$ but yo Cables purpofe

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Ont of Bom under $V$ breaks or Root Bomme and Ch: knap, feveral but tak the N .

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Northward of Munfter Haven is Bule Harbour, diftance one Mile; here is good anchoring for foutherly Winds: And N. of that is Volyar Road. There is a little Illand juft before it, where you may anchor on any fide of it, as the Wind is; for you may tail round, or go in or out on which fide you pleafe.

To the northward of Volgar Road, diftance 2 Ls. there is an Illand call'd Bremer Holin; between them is a funk Rock: Kecp the Ifland in the Entrance of Volyar River, a little open with the Point of Land on the N. fide, and you go clear. Here the Channel parts in two ; the caftermoft is call'd the ()ld Leit/) or Channel, and the other the New: The Old Leit/s has not above ${ }_{2}$ Fa. in the deepeft, but on the E. fide of the Entrance you may anchor fafc for cafterly Winds.

But the $N e \backsim$ Leith is broad and deep, and is a very good Channel. About the Middle of the Ncw Leith there is a little Bay or Creek call'd Rugga Holm: Herc is no anchoring, but you may lie between the Illand and the N. Point, with Cables made faft to the Rings, placed on both fides for that purpofe.

North of Rommel lies Red-root-bolm, or Root-bolm, diftance near a Leaguc: Between them is a fair clean Channel into the Sca, W.S.W. call'd Eoltmerford: It is a large wide Sound. On the S. fide are Come fink Rocks; but if you keep the Mid-Channel a little to the northward, you go clear.

On the S. fide of this Sound, and a littic from the $N$. Point of Bommel lics another funk Rock; which tho it is 5 or 6 Fa . under Water, yet when it blows hard off the Sca, the Sca breaks very much upon it : To come in here keep Red-loolm, or Root-holm, on the Larboard-fide, till you come thwart of Bommel. You would do well to take a Pilot here, the Sounds and Channels being many, and very difficult, fuch as the Reiliknap, Deep-found, Strom-found, Pape-found, Bay-bolm, and feveral others. Youmay anchor on the E. fide of Bay-holin, but take care to avoid a Ledge of Rocks that runs out from the N . end of the Ifland.

North from Bay-bolin is a fmall Bay calld Crabkork, diftance $1 \frac{1}{2}$ L. at the N.E. Point of the Illand of Fuyrford. It is of ufe only for fmall Ships, and fo little, that not above two or three can lie there at a time.

From Crab-kork to Bock-opin is W. by N. 4 Miles. Be. tween them is a Sound call'd Crab Sound, opening S.W. by W. and W.S.W. into the Sca; there are three Hills on the main Land of Norway, almoft like the Drommels, and therefore call'd by fome the North Drommels; bring them N.E. from you, and that brings you before Cruys Sonnd. If you would go in at this Chamel of Cruveford, either to Watting Strome or any orher Place within the Great Ifland, or if you would go this way to Bergei, which may be done very well, the

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Channel

Chanel being all deep tho difficult, you mut be fire to take Pilots at the Entrance, if you are unacquainted, for there are innumerable Rocks and Dangers. But if you keep out at Sea till you get into the Latitude of Bergen, then you may stand in for follefiod. laving Alms on your Larboardfile: and get in between it and the Rerffionc, and to up to Bergen, which is in fight: As you go part the S. Point of Alaind, there is an find or Rock, upon which is fixed a great Iron Ring, to which you may dalton a Cable, if you are be.

## Sailing Directions for the Craft of N orwa

 ROM \%ellefiond to the South Point of the SadLand it is about $=0$ Ls. N N.E. and N. by E. the Coast is all broken Land and Iflands, but finall Velfils may fall within them all. The Norway Barks of all Places between Sentenefs and the North Catt, can fail all along with en the laid Rocks, except between the S. and N. Point of the Head Land; where they are forced to put out to Sea, there being abundance of fall Rocks, and too near the Shore.
About 7 Ls. northerly from Have I/ Rand, and is Ls. northerly from \%clefford, there is a Range of Rocks that hoot 3 or 4 Ls. into the Sea, called Outcry, or Outer Rocks: And about 4 Ls. and a half beyond, or to the northward of them, is the Inland call the Old, about ${ }_{3}$ Ls. from the Shore.

Between the Old and the Out-wieers or Outer Rocks, there is a good Harbour call Southford: There are two Illands lie before it, but you may fail in between them.
Oh. is a high Rock or Inland; it has many fall Rocks about it, and a Riff of Rocks flectching S.W. from it into the Sea $n$ car 2 Leagues.

There is a great Rock call Ky, N.W. by N. from the Entrance into Soutliford, distance 7 Ls. and N. by W. from the Old, dittance ; Ls. It makes with two flare Tops like a Billon's Mitre.
E. by S. from Ky n there goes a great Sound far up into the I and called Kin Sound; upon it are two Towns, called Wal wis and Eater Dale. About 2 or 3 Ls. northward from K'yn lies Orriack, it is alto a great Rock, and makes like one round Hill : and about 4 Is . to the northward of that, is the S . Point of stadland: Between them goes in a great Sound, by which you may fail to Bergen one way, and like wife the other way to Scutcuefs, being all within Land. And at the Entrance of this Sound, a little within the S. Point of the Head Laid, there is a mall Bay thwart of a Beacon; here you may anchor, and be fhelter'd from wefterly, northerly, and cafterly Winds.

Between the N'. Point of Stadland and Broad Sound are the I hands of Howiack; and without them, N.N.E. from the N. Point at + Ls. diftance, is the Ifland $S$ Singe.
and $y$ which kcep dali R The from To fifth is theft o Hill or find
2 or it has thews in the Land l is the Rive, Point from t or con Boa Point
a Pile Roads bl R St c NoN. NeE. with Rom s make Hum lis 1 with gerou Al Rive

It sou arc bound into the Broad Sound to Sudmer, keep

## Sailing on the Coafts of Norway.

be fire to i, for there kecp out at n you may r Larboardd to up to S. Point of fix'd a great oul are be.
calm'd, to prevent the Current driving you along by siand to the nortiward; the laid Rock is all clear, and you may wind about it without danger.

There are two fimall Bays or Harbours on the Mland of Aland, in which you may anchor upon Occafion: If you come from the northward, and would go into bergen, you may go in thro' Harleford, which is a Channel between Harle Inand and the Main, and gocs out N.N.W. and N. by W. from sland into the Sca.

## aft of Norway, from Bergen to Drontheim.

If the StadN. by E. the it finall Vctariay Barks NorthCaf betwen the are forced to Rocks, and

11 Ls. norus that thoot Rocks: And ird of them, Shore.
Rocks, there vo Iflands lie

Rocks about into the Sca
from the EnW. from the Tops like a
:up into the , call'd Wa ard from K'yn ke one round at, is the S . t Sound, by vife the other id at the EnPoint of the icacon; here $y$, northerly,

Sound are the from the N .
and you will have about 3 Fa. over the Stone Riff: After which you will foon have 10,20 , then 100 or 200 Fa. then kece between the Main and the Ifland, and you come to Romsdale River.

There is a grear River which comes in S.E. from Godon, from Sickule, Roximgpath, and other loading Ports.
To the northward of Broad Sound lie 5 large INands; the firt is Luycke, a high Illand; the fecond is like it, becween thefe go in Luycke Sound: the third is Harufa, it hath a high Hill on the middle of it, but is low at both ends: the fourth, or fimalleft of then, is called Lemfo, or the $L o z i$, it makes in 2 or 3 low Hummocks: the fifth is Flemfom, or Roof Ifland; it has but one Hummock, which is at the W. cnd of it, and thews in the Form of the Roof of a Houlf; there is a Bay within the E. Point of this Illand, where there is a good Road Landlockt from all Winds. On the N.E. fide of this laft Ifland is the Chanuel called Nogueford, it gocs S.E. into Romfidal: River; and the Rocks that lic betwecn Flemfen and Roe 'Point are called Romfdale Scarrs: Among them about E. from the $\mathbf{N}$. end of Filemfin, is the Ifland Lever; in going in or coming our you may fail on cither fide of it.

Boorfound is a Haven among the Rocks louthward of ioco Toint; there is good anchoring, but not fafe to run in without a Pilot: the fame is the Cate of all the other Havens and Roads hercabouts, for the Shores are cover'd with innumernblc Rocks.

Stemme/beft is the next Point of the Main Land from Bo: N.N.E. diftance 3 Ls. and lies from the N. Point of Stadland N.E. by N. diftance 36 Ls. To fail hither, it is beft to kcep without in the main Sea, excepe you are bound for Sudmer or Romflate. Stcmme/be/l is a high Point of Land; and if you make it coming from the S.W. out of the Sca, it appears in 2 Hummocks. Turning in by Stemunefheft is the Channcl which lics N.E. by E. to Yrontbeim: I advife all Strangers, and all with great Ships, to take a Pilot here, for the Rocks and dangerous places are not poffible to be deferibed.

All the way from Stemmeflheft to Drontheim may be called a River or Sound, for it is within a long Riff or Range of Illands. with an cndlefis number of Rocks: It is Pilots work, and it is not poffible to give a perfect Deffription; Pilots are to be had
()ld, diftance i Ls. It makes with two lharp Tops like a Bilhop's Mitre.
E. by S. from Kyn there goes a great Sound far up into the Land calld Kyn Sound; upon it are two Towns, calld Wal. dres and Eiffer Tale. About 2 or 3 Ls. northward from Kinn lics Orriack, it is alfo a great Rock, and makes like one round Hill : and about 4 I.s. to the northward of that, is the s. roint of Stadland: Between theni goes in a great Sound, by Which you may fail to Bergen one way, and likewife the other way to Scutenefr, being all within Land. And at the Entraince of this Sound, a lietle within the S. Point of the Head Lazd, there is a finall Bay thwart of a Beacon; here you may anchor, and be fhelter'd from wefterly, northerly, and cafterly Winds.

Between the N. Point of Stadland and Broad Sound are the Inands of Howarck; and withour them, N.N.E. from the N. Point at ${ }^{4}$ Ls. diftance, is the Ifland S Sünoe.
If you are bound into the Broad Sound to Sudmer, keep without the Iflands of Flowack, about the northmoft of them, which is call'd $H_{o f f e n}$; and go E. by S. $=$ or ${ }_{3}$ Ls. from it, then Yon will fee on the Larboard-Bow an Illand call'd Godon; go in there, and take a Pilot for Sudmer.
B.cif if you are bound to Romfdale River, go by the Inand of Letycke, where you have to to i F Fa. Water in the Fair Way; only mind that when you are paft the faid Ifland Luycke, there is a Stone Riff runs crofs the Channel almoft to the high Head of Horrel; there edge off from the Ifland that is on your I .arboard-fide, and run clofe by the high Head of Horrel, F you are bound about the Nortls Cape, and take your Dcparture from the North Point of Stadland, it is from thence to the Illand Trenough, 77 Ls. N.E. by N. quite without all the Iflands and Head Lands; and from the haid Norts 'Point to the Inand Ruff it is N.N.E. cafterly $9=$ Ls. Alfo from the forefaid North Point to the lhand Locfort, it is N.N.E. is Ls.

To lail from the Stadland to the North Cape it is certainly beft to kecp without all the faid Illands, Ieft mecting with the Wind at W. or W.N.W. yoube cmbay'd in Drontbeim River : but if you are bound from Drontheim to the northward, you have the Moncudale Ifland about io Ls. to the northivard of Trontbeim: and about 12 Ls. N.W. by W. from that are the Chands of Holy Land, and from that about 10 Ls. N.N.W. or N.W. by N. is the llland Trenough; from whence about is Ls. northerly are the Illands Ruft and $W$ 'ero; between which and the Loeffort is the famous $\left[1\right.$ biripool, called by fome the $N_{a}$ wel of the Sca, and by others the Macl Strom: you may an. chor under the Wef Point of the Loefort, or you may fail all
p Tops like a far up into the ns, call'd F al. ward from Kyn ; like one round that, is the s . reat Sound, by ecwife the other And at the EnS. Point of the Bcacon; here crly, northcrly,
ad Sound are the E. from the N .
, Sudmer, kecp hmoft of them, s. from it, then II'd Godon ; go
o by the Inand n the Fair Way; Ifland Luycke, oft to the high and that is on Icad of Horrel,

Toint ; there is good anchoring, but not fafe to run in without a Pilot: the lame is the Cale of all the other Havens and Roads hercabouts, for the Shores are coverd with imnumerable Rocks.

Stemmefleft is the next Point of the Main Land from Boe: N.N.E. diftance; Ls. and lies from the N. Point of Stadland N.E. by N. diffance 36 Ls. To fail hither, it is beft to kecp without in the main Sca, except you are bound for Sudmer or Romfialc. Stcminc/beft is a high Point of Land; and if you make it coming from the S.W. out of the Sca, it appears in 2 Hummocks. Turning in by Steminc;'hoft is the Channcl which lics N.E. by E. to Drontbsim: I advife all Strangers, and all with great Ships, to take a Pilot here, for the Rocks and dangerous places are not poffible to be defcribed.

All the way from Stemme/focft to Drontbeim may be called a River or Sound, for it is within a long Riff or Range of Illands, with an endlef's number of Rocks: It is Pilots work, and it is not poffible to give a perfect Defcription; Pilots are to be had at all the Sounds which open into the Sea, particularly at Rams Sound, Gryps Sound, Flees Sound, and many others.

About 4 Ls. from $\operatorname{Dome} \rho$ rioft, and on the Sca Shore, lics a little Illand called $S_{\text {wian }}$ Tolim; you may tail round it, there is upon it a Warder: Under this inand you may anchor, either going to the caftward or weftward, in 4 or 5 Fa. clean fandy Ground.
Between Hitteren and Lexe there is a Haven called Tecpfound: The Norway Barks coming from the Southward, run in here behind Lexe to go to the Northward.

## Norway and Finmark, from Drontheim to the North Cape.

Fape, and take of $S$ tadland, it 77 Ls. N.E. by 3 Hcad Lands; uft it is N.N.E. th Point to the
$c$ it is certainly ecting with the putheim River: horthward, you e nortinivard of pm that are the Ls. N.N.W. or fec about is Ls. en which and fome the $N_{a}$ : you may an. ou may fail all
along to the Nortl, Cape within the Iflands; or you may run in at divers places between the Illands of Wertroll Sauies and Tromfound; but thwart of thole Iflands lic here and there fome funken Rocks, very dangerous for thofe that are not asquainted therewith; Pilots theretore are very needful all that way.

From Trom/ound to Surroy it is N.E. by E. about 16 Ls. At the E. end of the Illand of Tromfound goes in the Channel of Tromfound, leaving Fogleden and Tromfound Point on the Starboard fide, and Loppen, Loppen Calf and Skysfen on the Larboard fide; and within are leveral Bays and Roads, where you may anchor upon occafion.

Loppen and Loppen Calf are two fmall Mllands, where is a Channcl runs in to the Northward of them berween Loppen and Surroy, leaving Loppen on the Starboard-fide, and Stirroy on the Larboard fide ; that Sound is called the Suyer Sounä: and within it nearer the Land, is another called Sberver Sound. thro' which you may fail S.E. into Alten botion; for failing in there you muft have a Pilot.

## Directions for Sailing on the Coafts of I

Nott, In going into Suyer Sound, coming out of the Sca, there are fome Rocks called Huyguen's Rocks; they lie about 10 Ls. N.E.by N. from Tromfonnd, and W.N.W. about 5 Ls. from the Welt-end of the Surroy. One Yobn Huyguens, a Dutchman, fruck upon them in the Year 1595 , and hence they are called Huyguen's Rocks, it is fuppos'd there are more thereabouts, not yet difcover'd.

About 5 Ls. caftward from Surroy lics a finallifland called $7 \%$ gcin, and betwecn them lic many other fmall Iflands or large Rocks; the firft is Ship Holm, and further in, to the Southward, is Reef Holm: you may fail in between Surroy and fugen on either fide of the faid fimall Illands: and ftanding in S.E. or S.E. by E. there is a good Hariour within an Illand called Hammerfaft; allo betwecn yugen and the Iniud Maggerce lies Holmfly; it is a tmall Ifland but you may fail round about it : Therc is on
the $N$. fide of it a in a good River, alfo another Bay o have a good Road
The N. Capc is and a little to the Stappen; buc by ters.
To the fouthw good Haven calle the S. Point of $M$ there is a good Ro thro' Suyer Sound Idlen and Hamme, to Sca again betwo

## Sailing Directions for the Coaft of Lapland, from the Nor



HE North Kin lics about in Ls. E by S. from the Nortb Cape; it is a Point of the main Land: between them appears a great open Sea: From the North Kin to Tanucbay is about ${ }_{11}$ Ls. E.S.E. a clean Coaft, without Rocks or foul Ground; high ftecp craggy Land. Tanuebay is the Mouth of a great deep River 2 Ls. broad; it goes in at firt S. and then parting in two, or rather three parts, the main River turns more to the Weftward: if you would go in there, take a Filherman at $O$ mega for a I lot.
The Point of Matkorf lies a little to the Eaftward of Tannebay; but the next place of Note is Ward-Huis S.E. by E. and S.E about 16 Ls. between, but neareft to $W_{\text {Fard-Honfe }}$ is a ligh Hummock upon the high Land like a Caftle, by which the Land may be known.
IFard-Houf $f_{C}$ is a large Inland with 2 or 3 fmall oncs on the N. fide of it; but the large one only is inhabited: It is about = i Miles long, lies a Mile from the Main, with very deep Water between.
There is on each fide the Ifland N. and S. a deep Bay; they come fo near to one another in the middle of the Ifland, that they almoft part it in two; not above a Stone's-caft of Land being betwecn. There is a Caftle with a fmall Town near the Sca fide on the E. fide of the S. Bay: There is good Riding in the S. Bay, but better between the Ifland and the Main. You may tafely run quite thro' between the Ifland and the Main, only run fomewhat neareft to the Rock call'd 7 )ief/bolm, where the Gallows is, becaule theie the Ifland is foul.

About a Gunthot N. lie the other 2 Iflands very near together, not a Mile long, but very high and rocky, with 2 or 3 Rocks by them above Water.

From Ward-boufe the next Land S.E. is Keger Point, being the N.W.end of Fi/her's Ifand, its diftance :o Ls. Between therm lies a Bay where feveral Sounds and Rive.s go in, among? which is the great River $P$ it fing, commodious for great Ships; there being a good Road a little within the River.
to the Town of 1 Country.

To tail into th the S. end of $F i / b e r$ the high Land of $E$ wide; and when Iflaud Kildnyn and Bay, between Lau. fore the River, ma for it is very diffice
South of the Ri $1 \stackrel{1}{2}$ L. between bo there is a Harbou you go by a roun within, it cdges to fo that you cannot depth you pleale ; fometimes ouzy an Ouze, and fave a

Kilduyn Ifland 1 E.S.E. the Channo times narrower, by Middle, or neareft tween two Points Laplanders Tents fore them in 12 or it is very decp.

If you would northward, run bo end; and being ii there the Channcl Go on S.E. till you on the E. fide, as Ifland, anchor und
There is a good from fo high a pla
the N . fide of it a Bay called Ikeford, where you may anchor in a good River, for foutherly and cafterly Winds: there is alfo another Bay on the S.E. fide, called Knarwick, where you have a good Road for wefterly and northerly Winds.

The N. Cape is the northermoft Point of the Ifland Maggeroe ; and a little to the weftward of it lies 3 or 4 fmall Inands called Stappen; but by Englifl, Sailors, The Motber and Daugbr ters.

To the fouthward of the E. Point of Maggeroe there is a good Haven called Keelwick; and a little to the eaftward of the S. Point of Maggeroe lics a fmall Inand called Altenfolen: there is a good Road and Shelter for all Winds; you may run thro' Suycr Sound within Surroy, leaving all the liflands, except Idlen and Hammerfaff, jutt on the Larboard fide, and run out to Sca again between the Nort) Cape and the Norts Kin.

## from the North Cape to Tieribieri Point.

to the Town of Kola, which is the largeft Town in all that Country.

To lail into the River Kola, you muft go from Laus, or the S. end of Fi/ber's Ifland, towards the River S.S.E ; run by the high Land of Bodenwiolack, and the River will open very wide; and when you are at Laus Point, you may fee the Iflaid Kildıyn and the River Kola: The Land lies in a great Bay, between Laus and the River Kola. When you are before the River, make a Signal for a Pilor, if you would run in, for it is very difficult for a Stranger.

South of the River Kola is the Ifland of Kilduyn, diftance ${ }^{1} \frac{1}{2}$ L. berween both, but nearer the River than the Ifland, there is a Harbour call'd Blieffin Salenfl. To fail in here, you go by a round reddilh Hummock; and when you are within, it edges to the weftward, till the Harbour feems fhut, fo that you cannot fee the Sea, and you may anchor in what depth you pleafe; it is all clear, white fandy Ground, but fometimes ouzy and foft : Alfo you may run a-hore upon the Ouze, and fave a Ship without Anchor or Cable.

Kilduyn Ifland lies extended along thore 2 I.s. W.N.W. and E.S.E. the Channel between is about half a L. broad fometimes narrower, but very deep, and elear Ground. About the Middle, or neareft the E. end, is a good Road and a Bay, between two Points lying out toward the Land: There are fome Laplanders Tents or Houfes there, and you may anchor before them in $1_{2}$ or ${ }_{14}$ Fa. fandy Ground, but towards the S.E. it is very deep.

If you would anchor under Kilduyn, coming from the northward, run between the Ifland and the Main at the W. cud; and being within, you will fee a little round Ifland; there the Channel is narroweft, but broad cnough to turn in : Go on S.E. till you come between the two Points, and anchor on the $E$. fide, as before. If you come in at the E. end of the Ifland, anchor under the Houles, as before.

There is a good watering Place at Kilduyn; the Water rums from fo high a place, and with fuch a defcent, that you may kecen she Cask in the Boat. and make _he Water run in to fill it.
$N$. fide of it ; but the large one only is inhabited: It is about $=1$ Miles long, lics a Milc from the Main, with very deep Water between.
'There is on each fide the Ifland N. and S. a deep Bay; they come fo near to one another in the middle of the Inand, that they almoft part it in two; not above a Stone's-caft of Land being between. There is a Caftle with a fmall Town near the Sca fide on the E. fide of the S. Bay: There is good Riding in the S. Bay, but better between the Ifland and the Main. You may fafcly run quite thro' between the Ifland and the Main, only run fomewhat neareft to the Rock call'd Tiefholm, where the Gallows is, becaule there the Ifland is foul.

About a Gunlhot N. lie the other 2 Mands very near together, not a Mile long, but very high and rocky, with 2 or 3 Rocks by them above Water.

From Ward-bonfe the next Land S.E. is Keger Point, being the N.W. cod of Fijher's I/land, its diftance io Ls. Between them lies a Bay where feveral Sounds and Rivers go in, amongft which is the great River Pit $\ln$ ing, commodious for great Ships; there being a good Road a little within the River.

> N. B. There is much Salmon taken and loaden here.

There are 3 Harbours at the S.E. cud of Fi/ber's Ifand. ${ }_{1} f$ t. Laus on the N. Fide of the Point. $2 d$. Trepena at the Pout it felf. $3^{d .}$. Kawens on the S. fide of it ; there is good anchoring in them all: The Ifland is about in Ls. in length, lying N.W. and S.E. If you are obliged to go into any of thole Harbours, you would do well to make a Signal to a Fifherman, who will come off and pilot you in.
> $\lambda^{\top}$. B. There are, 'tis true, no Inhabitants here, (Fifhermen or others) in the Winter; but then 'tis alfo true, that here are no Ships to ftand in need of them at that time of year, the Sea being all full of Ice.

Keger is a Haven at the N.W. end of Fihber's Ifand; a little without the N. Point of the Harbour, lic 2 or ${ }_{3}$ Rocks; allo in the midft of the Harbour's Mouth is a funken Rock, leave that and the other Rocks on the Starboard-fide, and run by the S. Shore : then edge behind the Rocks, and anchor in - ors Fa. Here is as good lying as in any Harbour on the Coaft of Laplaind: The Harbour's Mouth gocs in S.W.
$\therefore B$. Altho this is commonly call'd Fifber's IJland, yet it is not ablolutely an Inland, being joyned to the main by a Neck of Land: but it is fo narrow and low, that the Rulfians going that way can haul their Boats over it. It is called Fi/her's Iland, becaufe the 'Danes ufed to have their Fifh Staples at Keger, upon this Ifland.

From hence to the River Kola, or Kilduyn Ifand, is about $g$ or 10 I.s. S.S.E. or S.E. by S. The Kolut is a large deep River, and is navigable for great Ships far up into the Country

Jepth you fometimes Ouze, and

Kilduyn E.S.E. the rimes narro Middle, or tween two Laplanders fore them in it is very d

If you northward, end; and $b$ there the Cl Go on S.E. on the E. fi Illand, anch

There is from to hig kcep the Ca At the E. there is a F

From Ki between th duyn there i it, under th or four Ship than the ref To the nort Rocks alon them is alm Sea breakin hind the Ro to you, do as the Wind

Tiry Bir River: Shi fandy Grou wefterly, th other, and may anchor

Two Ls. call'd Wara broad Sour Tiry Biry, good auch Mouth of

To the e call'd Gabr it rifes ${ }_{12} \mathrm{~F}$ the Harbou lowert on
depth you pleafe ; it is all clear, white fandy Ground, but fometimes ouzy and foft : Alfo you may run a-hhore upon the Ouze, and fave a Ship without Anchor or Cable.

Kilduyn Ifland lies extended along thore 2 Ls.W.N.W. and E.S.E. the Channel between is abour half a L. broad fometimes narrower, but very deep, and clear Ground. About the Middle, or neareff the E. end, is a good Road and a Bay, bctween two Points lying out toward the Land: There are fome Laplanders Tents or Houfes there, and you may anchor before them in 12 or 14 Fa . fandy Ground, but towards the S.E. it is very dcep.
If you would anchor under Kildayn, coming from the northward, run between the Ifland and the Main at the W. end; and being within, you will fee a little round Inand; there the Channel is narroweft, but broad enough to turn in: Go on S.E. till you come between the two Points, and anchor on the E. fide, as before. If you come in at the E. end of the Ifland, anchor under the Houles, as beforc.

There is a good watering Place at Kilduyn; the Water runs from fo high a place, and with fuch a defcent, that you may keep the Cask in the Boar, and make the Water run in to fill it. At the E. end of Kildayn, upon a Point call'd Sacrifice Pcint, there is a Filhers Village call'd Kammon.

From Kilduyn to Tiry Biry the Courfe is S.E. diftance 6Ls. between them is a great Bay, in which about a L. from Kilduyn there is a high Ifland call'd Olici rie : Behind the S. enci of it, under the Main, there is a good River that will hold three or four Ships very well: On the Main is a Hummock higher than the reft, and upon it are two Croffes one above another: To the northward of it is a flat Point, and thwart it lie fome Rocks along fhore, which are cover'd at high Water ; one of them is almoft even with the Water, it may be known by the Sea breaking upon it. If you would go in here to anchor behind the Rocks, get a Pilot if poffible; and if none comes off to you, do not venture, but go on for Tiry Biry or Kilduyn, as the Winds prefent, for it is very hazardous.
Tiry Biry is a Point at the Mouth of a very large and deep River : Ships of any burden may go up, and anchor in good fandy Ground: It lies in, firft South, and afterwards more wefterly, the eaftmoft Point lies out more to Sea than the other, and makes a Bay to the eaftward of it, where Ships may anchor for a N.W. Wind: This is call'd Tiry Biry Point.

Two Ls. to the fouthward of Tiry Biry is a great fandy Bay call'd Waranin; it is narrow at the Mouth, but fpreads into a broad Sound within. In this Sound, as alfo in the River of Tiry Biry, there is good Salmon fifling: This Bay is clean and good auchoring. There are three little Iflands without the Mouth of the Harbour, but the Road is within them.

To the caftward of Tiry Biry 4 or 5 Ls. is a Tide Harbour calld Gabriel: You may go over on Foot ar low Waret, but it rifes ${ }_{12}$ Foot on the Flood: There are threc litele Illands in the Harbour's Mouth, the higheft on the S. fide, and the two loweft on the N . fide. When you Sail in, run neareft the foush.

## Directions for Sailing from Cape

iouthnoff; and being got in, edge to the northward behind the two northmoft, and anchor on the N. fide of the Harbour, where you have 7 or 3 Fa clear Ground.

About a League to the fouthward of Gabriel, or farther, is Salenfi: There is a great Indraught between Gabriel and Salenfi, and the Sound runs almoit two Ls. into the Land: 'Tis large enough for 500 Ships to anchor in, and all over good Giround. A little to the northward of it lie fome high Rocks, you may fail round them all, but no anchoring: Salenfi is a fine broad Bay, there are three iflands juft before it of a grey Colour, as is allo the main; at the Point of the Bay are three great Warders, and a litile to the fouthward on the main Land attecp Hill. This Bay is eafily known by thefe Marks. If you would go into the Bay, the Fillhermen are all Pilots.

The Ifland 'Daelna Olinie is 2 Ls. to the fouthward of Sa$J_{\text {enf }} /$; it is at the N . end high, at the S. end lower: Behind it. under the main Land, is a good Road for Ships of the greateft burden. The Fiflermen here allo will pilot you in if there be Occafion.
There are threc little black Illands between Olinie and Salinf ; there is a good Roadunder them in 6 or 8 Fa . About 5 Ls. to the caftward of Olinie is a fair Harbour call'd Rinds. There are four little Iflands before it, and within or behind them you may anchor, but take a Pilot there alfo, becaufe the Harbour is behind the Iflands.

If you come from Olinie, and intend for Rinde Harbour, run clear along flore, to get right off the Iflands; for the Land is to high, that in the Offing it appears above them.

A little to the fouthward of Rinde is a very great Bay : There are two litele high Illands before it, and upon the northermoft is a great Crofs; you may fail in on cither fide of the Inands, or between them, and anchor in $\rho$ to is Fa. theltered from all Winds; only when ir blows hard, and right up. on the Shore, there comes in a rolling Sea, but nothing that can hurt you. Between Rinde and this Harbour there lies a long low Ifland clofe to the Shore; but you may fail between it and the main Land, without any danger; and from this Illand to the Seven Iflands is 4 Ls.

A little to the northward of the Seven Iflands there is a fair findy Bay calld Golden Lay: It is well enough for foutherly

Winds, b blows rig

The $\mathrm{S}^{\prime}$ and S.E. b tlie threc from the but not 1 two laft may fail except th

Betwo main Lan fouthwar alfo anch Anchor out of tl

Upon Ifland, a the Iflanc

To th call'd the within : Ground, Sca.

About Navel 1 Bchind i ward, b Shelter Eight Point ; grows lo is all ver
From diftance der it is

From are fever From $K$ it is 21

## Sailic: Directions from Cape Swetenaes to A1

 thin the Point of Swetenaes gocs in the River Yockena ; and in the Entrance of it are Six Iflands, five of which lic along the Shore in the face of about 2 Ls. and the fixth within the fitth or fouthmoft : The three northermoft lic near together, as alfo the three fouthermoft. The northermof ot thole Illands lic duc W. from the Cape. Within the fouthermof there is a good Road, in 5 or 6 Fa . The Cape is a low flat Ground: To the weftward of it, and within (or to the fouthward of) thofe Inands, goes in the River Yockena. You have no Iefs than four feveral Chanucls, by which you

## ng from Cape Swetenass to Archangel

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arther, is riel and he Land: ver good h Rocks, /fis a finc grey Coare threc ain Land larks. If lots.
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great Bay : upon the her fide of 5 Fa. thel$d$ right up. thing that acre lies a 1 between from this
$c$ is a fair foutherly

Winds, but it is very bad lying here with a NE. Wind, for is blows right in: You may anchor from 12 to 20 Fa .
The Seven Iflands lic along thore in a Line, N.W. by N. and S.E. by S. The firf or northmoft is the greateft, that and the three next follow clofe upon one another, about a Mile from the Land: You may tail between them and the Land, but not within the fifth, which lies too near the land; the two laft lic a good way to the fouthward of the fifth; you may fail within them, you may allo rum between any of them except the fecond and third.

Between the northermoft of the $S_{\text {Seven }}$ Iflands and the main Land, there is a little Rock; you may anchor to the fouthward of it, in 4 to 7 Fa. plain landy Ground: You may allo anchor under the S. Point of the Firft Illand, with an Anchor to Sea and a Hauler a-fhore, in 19 Fa. pretty well ont of the Tide.
Upon the main Land, againft the N. Point of the northmoft Inand, are feveral Latianders little Houlcs, but none upon the Illands.

To the E. of the Seven Iflands is a great Sound, or Bay, call'd the Skipper: 'Tis narrow at the Entrance, but wide within: And there is a good Road in 4 to 12 Fa. clean Ground, but a N. Wind blows right in, and brings in a high Sca.

About 6 Ls. fouthward from the Skipper is Roake Oftro, or Navel Ifland; it is a high Ifland about half a League long: Behind it is a very good Road, you may run in from the fouthward, but you cannot fail in from the northward: Here is Sheleer for all Winds.

Eight Ls, to the caftward from the Skipper lies the Black Point ; the Land is high within it, but towards the Point it grows low like $S_{w e t e n a e s . ~ F r o m ~ t h i s ~ t o ~ t h e ~ c a f t w a r d ~ t h e ~ L a n d ~}^{\text {L }}$ is all very low.

From Black Point the Courfe is S E. by E. to Evankricft. diftance 4 Ls. This Point has many Crofles upon it, and under it is a good Road for foutherly Winds.

From Eivankrieff to Kletun it is 3 or 4 Ls. S.E. Here alfo are feveral Croffes, and here is a good Road for foutherly Winds. From Kletun to the Point of Swetenaes, or the River Fockena, it is 2 LS . S.S.E. a clean Strand and ftecp Shorc.

## Swetenaes to Archangel, and the White Sea.

- Yockena ; c of which s. and the hermoft lic te northerVithin the c Cape is a hin (or to r 7ockena. vhich you
N. of Orlogenefs to 9 Ls. S. of it. There is a good Channcl of 4 Ls. broad, and 25 to 30 Fa. Water, on the W. fide of Knock Hobn, all along the Lapland Shore, and about 2 Ls. from the Land.

In this Channel, and at Pomnoy, there are very flrong Tides, ebbing and flowing at Spring-Tides 18 Foor. From Ponnoy to Crofs Ifland the Courfe is S.W. by S. diftance 9 Ls. You may anchor all along this Courfe in 8 or 9 Fa . and ftop at Tides, tho they run very flrong here.

There is a Point between Ponnoy and Crofs Ifand, with
it :med the main Land, withour any danger; and from this llland to the Seven Iflazids is ${ }_{4}$ Ls.

A little to the northward of the Secent Iflands there is a fair fundy Bay calld Golden Eay : It is well cnough for foutherly

## Sailing Directions from Cape Swetenaes to

Ithin the Point of Suetemaes gocs in the River Fockena; and in the Entrance of it are Six. I/lands, five of which lic along the Shore in the face of about 2 Ls. and the fixth within the fifth or fouthmoft : The three northermoft lie near together, as alfo the three fouthermoft. The northermont of thofe Iflands lic due W. from the Cape. Within the fouthermoft there is a good Road, in 5 or 6 Fa. The Cape is a low flat Ground: To the weftward of it, and within (or to the fouthward of) thofe 1 llands, goes in the River 7ockena. You have no lets than four feveral Channels, by which you may lail into this River; therefore if you are to go in here, you will find it proper to take a Pilot.

Berween the fourth and fifth Ifland is a pretty good Channel: If at going in, to the foutiarard you meet with a N.E. by E. or S.E. Wiud, you may anchor bchind Swetctats 'Point, it is good clean Ground from Süctenacs to Lombafibo, the Courlc is S.SE. diftance 12 Ls.

You may anchor under Lombafibo, but there is no good riding, for there is foul Ground and a foul Sea: The beft anchoring is between Lombafion Point and the fouthermoft Illand. Lombif bo may be known by five Illands that lie along the Coaft to the northward of the Point.

From Lombafibo to Orlogenefs the Courfe is S.S.E. and S. by E. diftance in Ls. The Coaft is clean and ftecp, but there is no Road to anchor in betwecn them : Indeed in good Weather, if you meet with contrary Winds, you may anchor at Sca in 25 to $\hat{j} \circ \mathrm{Fa}$. to ftop for the Tide; for in the Paffage into the $\|$ bite Sca, the Flood Tide fers ftrong, in or out.

There is a Srone Riff runs out fiomOr logenefs'Point, about a Gun-thot into the Sca; it is to flallow, that it is a great part dry at low Water; take care to keep without it to the fouthward. Orlogenels is known to the Scamen by the Name of the Thace l/ands: Two of them are about 2 Ls. and a half to the fonthward of Orlogenefs, and the other abour 2 Ls. and a half to the fouthward of the fiff two: And about half a L. to the fouthward of the fouthermont of the laid Three Iflands, is the Ritacr 'Pomey.

Thwart Ponnoy is the narroweft of the Paffage into the Wlite Sea; in the Middle of which, about 3 or 4 Ls. from the Shore, is a Sand or Shoal call'd Knock Golnt, very rough and ftony; and in fome Places, particularly off of Orlogenefs and the $\Gamma$ loree Iflands, it is dry at low Water ; it ftretches $N$. and S. near $j 0 \mathrm{I}$ s. in Ingth, viz. from thwart of Swetenaes Point to the fouthward of Ponnoy: But the worft Shoal, and moft dangerons part is about ic Ls. in Icngth, viiz. from about 7 Ls .
N. o

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nd from this there is a fair for foutherly

From livankicill to Kletun it is ; or 4 Ls. S.E. Here allo are leveral Croffes, and here is a good Road for foutherly Winds. From Kletun to the Point of Suetcinacs, or the River fockena, it is 2 Ls. S.S.E. a clcan Strand and ftecp Shore.

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Tage into the 4 Ls. from the cry rough and prlogenefs and ches $N$. and $S$. naes Point to and moft danabout 7 Ls.
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In this Channel, and at Ponnoy, there are very ftrong Tides, cbbing and flowing at Spring.Tides is Foot. From Pomoy to Crofs Ifland the Courle is S.W. by S. diftance 9 Ls. You may anchor all along this Courfe in 8 or 9 Fa. and itop at Tides, tho they run very Atrong herc.

There is a Point between Ponnoy and Crofs Ifland, with three Croffes upon it; for which Reafon it is fometimes taken for Crofs Ifland: But Crofs Ifland is much bigger; alfo it hath two Croffes at the $N$. end, and at the S. three; by which it may be known from the other.

You may fail bchind Crofs Ifland, or anchor there in 6 or 7 Fa. all good clean Ground; but the beft anchoring is with the great Crofs E.N.E.

From Ponnoy River S.E. and S.E. by S. about 9 or roI.s. is the $M c / e n f c l^{\prime}$ Gulph, into which a great River runs that comes from Colmasre. There is in the Mouth of this Gulph a little Inand, on the N. fide of which you may anchor upon occafion. At the S. part of this Gulph it is low Land, all grown with Trecs; here you may anchor clote by the Shore all along in clean Sand, from thence to Cat fnofe or Circy 'Point.

From Crofs Ifland to Catfinofe is about 20 I.s. S.W. You may anchor under Cat finofe Point; and on the W. fide of it in 7 to 10 Fa good lying with cafterly Winds, but the Ground is not very good : And from hence to the Bar of Archangel the Courfe is S. or S. by W. diftance is Ls. This is the Entrance into the River Twina. In this Courfe you firft fec Land to the weftward of St. Nicholas, full of Trees, which at firft fight, in a clear Day, appcar as if they grew in the Sca. Sailing on to the fouthward you fee more Land, to the caftward of that you taw firft. Afterwards you will fee $S t$. Nicholas's Stceple ; and when that bears S. by W. or S.S.W. you are right thwart of Archangel Bar, and ride there till a Pilot come of to you to bring you in.
$N^{\prime}$. B. All the Surveys to the eaftward of the $W$ bite Sea, or to the northward, to the Inc or Land (for we know not yet which it is) of Nova Zermbla, are fo uncertain, and fome of them fo evidently fictitions, that we cannot think it worth while to follow them, or copy any thing from them. The Trading World waits with fome impatience for a perfect Survey of what is known upon that Coaft, and for a more full Difcovery of what is not.

> Sailing

## Sailing Directions for the Coaft of France, from Dun onne in the Bay of Bifcay, and forward to Fonta clufive.



H EN you come from the Flemifl, Conft within the Banks, as has becu already directed, that is, thro' /1oolbreats Sound at the cad of the Irakes, which are the other Banks before Wankirk, and from thence Weftward, then you come againft the Weft Point of Gravelin Sand, ruming out into the Sea: To the Euftward of the Sand is a Chamel into Gravelin, directed by the Light-houlcs.

As to '7nukirk, the Harbour being demolifh'd fince the former Survey, there is no giving Directions for going into that Port by the old Marks; it muft therefore be referr'd to the lilots, till a new Survey of that Haven be made publick.

The Flemifl) Banks, of which fome Account is given in the Dircetions for that Coaft, come on this way allo: the Wettermoft Bank call'd the Clift, reaches quite thwart of Calais from the N.N.E. fix Ls. in length; and off of that runs the Rujliag almoft parallel, lying N.E. by N. 5 Ls. Between them is a Channcl very wide and decp, having 20 to 24 Fa. Water. The third allo, called the Dike, reaches the length of the Sand called the Cliff", and lics N. E. and the fourth, called the Rattle Bank, lies in the fame manner N.E. by E. and has $4^{\text {to }} 5$ Fa. upon it, and 18 Fa. clole by it.

Between this laft and the Bree or B'road Bank, lics a Channel of 18 to is Fa . and here, as among all or moft of the reft, Ships knowing the Marks, or with skilful Pilots, may turn to Windward between the Banks cither up or down, and allo anchor and ride almoft where they will.

For the going into Calais, 1 refer to the Pilots; for Strangers here make a Waaff for a Pilot; fo I go on with the Coaft. W. of Calais lics a foul Point called Blackuefs, diftance 4 Ls. 'tis foul, becaule the Shore is full of Rocks almoft all the way. From thence to the Mouth of the River Lianne at Bonlogne, the Land trends to the S. diftance 3 L.s. making a Bay or Bight, which we call Bonlogut, or Bullezi Bay: here is good anchoring, fhelter'd from cafterly Winds in 5 to 15 Fa . clean hard Sand: they call it St. "fobn's Road; but to the northward of the Village the Ground is foul and ftony.
S. of St. "fobu's Road off of Ambleteruf, begins a narrow Riff, called the Balfare, running S.W. and S.W. by S. there is 4 to 6 Fa. upon it, but 20 to 25 very near it. Between Bullogne and Eflaples, 4 Ls. from the Shore, is another Shoal called the /'ergy, having but 4 Fa. and N.W. from the Mouth of the River lie rwo other Sands diftance 4 Ls. the northermoft called $L e$ batteur, and the fouthermoft $L e$ Q 2 uemeur; there is 8 to 9 Fa at leaft upon them: and farther S . another called the Baffurelle, on the middle of which is but 2 Fa . Water.

Upon the N. Pout of the River Lianne, is a high large

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## ce, from Dunkirk inclufive, to the Port of Bay: yard to Fontarabia, on the Border of Spain ex-

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 Coaft. $=4$ Ls. c way. uloguc, Bight, ancho. n hard ard ofjarrow here is allogne called of the oft calhere is called cr. large

To the fouthward of the Cape are two high flarp Rock: but tlicy are plain aboveWater. From hence to the Signe Head is the lame Courfe exactly, diffance 4 ILs . $\%$.
N.W. from the Seynefscad almoft a Leag. lies a Bank with but ${ }_{2} \frac{1}{3}$ Fa. Bring New Haven without Seyneheat, then you are juft thwart it ; but anchor within the firf Mill, and fay there for a lilot to go into Ncw Hazch. If you are bound to Hazre, or up the River Seyne to Caudeber, or to the City of Roan, you muft take a Pilot at New Haven.
S.W. or S.W. by S. from the Seynchead is the Entrance into Cach, diftance about = Ls. lying on the River Orue: There are fevcral Banks lying off $\sigma$ to 7 Ls. to Sea; you may go on cither fide of them, but the E. fide is the beft, which carries you into the Foffe of Caen, where you may anchor, and call for a Pilot to carry you up to Caen, which is a difficult barr'd Port, and 3 or 4 Ls. within the River.

16 Ls. from Caen N.W. by W. lies Cape Barfleur; and $2 \frac{1}{3}$ Ls. S. from the Cape lies La Hogue 'Point: there is good anchoring in a Bay to the S. of the Point, fafe from wefterly and northerly Winds, and in 7 to 9 Fa. the Point bearing N.W. by N. and N.N.W. but flun the W. Shore of the Eay, unlefs well acquainted therc.

The I Iands of St. Marques lic off herc S.E. from the Hogue Point, diftance 7 Miles; they are foul, and have fome Shoals on cach fide of then, fo that 'ris fafeft to kecp off. The Shore alfo from the Hogne 'Point is rocky and foul, particularly off of Dranguct and Caperon Points; give therefore the Shore a good Birth, ar leaft a League, then you will go without all, except a funk Rock, which lies near 5 Miles off Shore.

From Cape Barfleur W. and by S. diftance 5 Ls . is Cherbur g, a little Tide Haven. There are fome foul Grounds in the way, W. of the Cape; but keep the high Land of Cherbutrs without Cape de $l^{\prime} y c k$, it carries you without them all. To the W. of Cherburg is another Tide Haven called Fofs de Omonville: there are fome Rocks lic before Cherburg, and on both fides this Haven. If you would go in, take a Pilot. It lies 2 Ls. E. of Cape La Hoguc.
Duc W. from Cape la Hogue diftance 3 Ls. lics the Inte of Alderney: between the Ifland and the Cape runs the famous Channcl, called The Race of Alderney, by the French the Race de Blanchart; the Illand flretches in length about + Euglifb Miles E. and W. the W. cnd is foul, having feveral little Iflands clofe to it, and to the eaftward lies a Bank of Sand diftance i Leag. at the $W$. cud are feveral Rocks, within a Mile from the Ifland. Being paft the W. end, you may go away for ferfey with fafcty.
The Rocks at the W. end of Alderney run out into the Sca

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Upon the N. Point of the River Liannt, is a high large Tower nam'd La Toücr d' Order, near a Village called La 'I'oterie: the Einglifl, Sailors call it the Old Man; 'tis a Mark to know the River by. N. from this Tower, a Mile from the Shore, is a funk Rock very dangerous, having not 6 Foot Water on it.

On the S. Point of the River is a large Beacon ois a Stone Wall; thwart of that Point is a Riff very flooal ; run clofe aboard the new Head or Pier, and you thun the Shoal. Boulogne is a Tide-Haven, and needs no Pilot.

From the Old Man to St. I'allory is in Ls. S.W. Between them lic Eflaph's and Montfirevil upon the little River Canche, which is not fit for great Veffels. To go up the River Cancher to Ettaples, you muft take a Pilot, there being two Channels. It is much the fame at St. Vallery, which lies on the S. Shore of the River Somme. It is Choal Water from the Moush of the River $;$ or 4 Ls. into the Sea, from 5 to 10 Fa . The Shore is known by the ilhoaling.

From the Somme to 'Diep the Coaft liss S.W. diftance 7 Ls. the River Breefle lies between them, with the dry Harbour of Treport, fit only for fmall Veflels; alfo the River Saart fhort of $\%$ iop 2 Ls. The Rivers Argutes and Scye come into the Sea at ' ${ }^{\prime}$ up; and the Town lies along the Shore between them open to the Sca; the Haven goes far in within the Town it felt, and Pilots are always ready to carry you in.

St. Vallery in Canx, to diftinguilh it from the other St.Vallay, lics from Dicp W.S.W. diftance 5 Ls. 'tis a fmall Tide Haven, and a ftrait Channel, but fafe when you are in ; there are Pilots always at hand. On the fame Courfe is Fecam diftance 4 Ls. a Tide Haven, but deep, 2 Fa. at low Water : there allo you mult take a Pilot, becaufe of a Bank at the Harbour's Mouth. Hence to Cape de Caux is W.S.W. wefterly diftance 3 Ls.
of 'Draast good Birth, except a fur

From Ca a little Tid way, W. o withour $C^{\prime} a$ the W. of Omonville both fides lics 2 Ls. E.

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From Cape Barfleur. W. and by S. diftance s Ls. is Cherburg, a little Tide Haven. There are fome foul Grounds in the way, W. of the Cape; but keep the high Land of Cberburg without Cape de IVyck, it carries you without them all. To the W. of Cherburg is another Tide Haven called Fofs de Omonville : there are fome Rocks lic before Cherburg, and on both fides this Haven. If you would goin, take a Yilor. It lics 2 Ls. E. of Cape La Hogue.
Due W. from Cape la Hogue diftance ${ }_{3}$ L.s. lies the Ifle of Alderucy: between the Inand and the Cape runs the famous Channel, called The Race of Alderney, by the French the Race de Blanclart; the Ifland ftretches in lengeh about 4 Englifh Miles E. and W. the W. cnd is foul, having feveral little iflands clofe to it, and to the eaftward liss a Bank of Sand diftance i Leag. at the $W$. end are leveral Rocks, within a Mile from the Ifland. Being paft the W. cud, you may go away for H er $\int(\mathrm{y} y$ with fafcty.
The Rocks at the W. end of Alderney run out anto the Sca W. by N. and W.N.W. for ncar 4 Ls. the outmoft is very high, with fmaller Rocks about it. In the mid-way between this and the Ifland lies another as grear, but not fo high. Moft of thele Rocks are dry at low Water, but covcr'd upon the Flood. Thefe Rocks are called the Gasketts, bue by our Sailors the Casketts: and between them and the llland lic orher Rocks call'd the Barroches, in two great Ranges ftretching wide of the firft.

Cape Barfleur is a high Point ; near it, upon lower Ground, is a flat large Tower with two Windmills and fome low Houlces: and upon Cape la Hogue is a Cafte with a Tower on it, a little to the caftward; and within the Land ftands a high Spire Stecple, and at Cherburg is a fquare Tower Steceple.

The Ifland of Guerifey lics S.W. from Alderuey diftance 6 Ls. and from the Gasketts S.W. by S. ${ }_{7}$ Ls. To anchor under Gulerufy, you muft run to the N.E. Point, to far E. as to ride in fight of the Caftle, which is upon a Rock on that fide of the Ifland; bring that over the S. Point, and run in between the little lllands of Arm or Harm and the Caftle; without the Caftle is 12 to ${ }_{13} \mathrm{Fa}$. Water, and within or behind it is 6 to 7 Fa. at low Water.
N. B. The Tide flows on this fide the Channel much highor than in England: It flows at Cape la Hogue no lets than 6 to 7 Fa.
If you would auchor in other Parts of the Ifland, you would do well to take a Pilor, for there are fafe Roads cvery where, tho differing as the Winds may blow.
S.S.W. from Guerufis, diftance - Ls. lics a great Ledge of Rocks above a L. in length, called the Rock Doce: E. by S. from the Rock Toove lics a Rock called Le Barrue, 'ris under Water at the top of the Tide, and therefore very dingerous.

* N
E.


## Directions for Sailiny

E. from Gitlerifey lics the Ifland of Sark: you may anchor any where about it in 25 to 27 Fa . The N. and S. cnds are foul, deveral Rocks lying at thofe Points, fome above, fome ander Water. Betwecn Jurk and Guernfey lie the Illands Ask, and A'M or Harm, you may go between them all.

Abundance of Rocks take up all thefe Patts about Guernfy.
As, 1. Certain Rocks 4 Miles W. of Gucrufiy; they lie 4 Miles in length; the fouthermof are the biggeft, called the Girof Mannowata, then Icfiening towards the middle they are called only the Hannoreans: ar the north end they lie all under Water, and are not feen at all, which makes them the more dangerous; Ships are ofteis loft upon them. 2. Eaft from the N.E. and of Gituerfley diftance i L. lic the slmplorogues, and a Mile nearer the Point lic the Brayes, and another called the Samotw: in a word, Cillowfy is furrounded with Rocks and Dangers, and no one thould come near, that is not well acquanted with them, without a Pilot.

Ferer lics 6 Ls S E. from Gucyfy, and from Cape $L_{C}$ Horter S.W.by W. diftance 6 L.c. furrounded with Rocks alfo, like the others; yet there are very good Roads and Anchoringplaces all round it, elpecially to the N. fide: But Pilots are cafly to be had; fo the Defeription is of no ufe.

Forfey bears with St. Malocs S. by E. and N.by W. diftance $\delta$ Ls. In the Fair Way lic a Clufter of hieh Rocks to clofe, that they are altogether 7 to 8 Miles in compafis; they are called the Mankiers, or the Grelets Banks, moft of them under Water: None flould go this way without a Pilot.

They who fail thro' the Race of Blancloart or Alderncy, bound to St. Malocs, sun commonly berween Sark and "for$f y$ : there is indeed another Paffage to the eattward of all the Shoals: bue this alfo is Pilots work, who know all the Charunis fo exactly, that there is no need for the Mariner to look in:o any Charrs, or be at any pains about them.

St. Germans is a Port on the Main E. by S. from the Ifland of "ferfy, diftance $3 \frac{1}{3}$ Ls. there are feveral Rocks lie between, cipecially to the northward, but the Pilots direct the Sailors better than their Books.

Cramath lis due S. of St. Gormain diftance 6 I.s. 'tis a Tide Hawen, and dry at low Water: it lies on the S. fide of a great Font of land, from whence begins the Bay of Aituranches. It would be endlefs to deferibe the numberlefs Rocks, Shoals and Hhands in this patt of the Coaft; even the lateft and moft exact Sursus do not do it, but only name the chicf and moft dangetous, referring to the Pilots; fecing no Ships, no not their own Coafters, venture thro' the Race of Alderncy, and then by "ferley and Gucrufis, to the fouthward, or even into this Bay, Without them. All along this Coalt, between Cape Le Hogue and Granzille, you fec upon the Shore a great many little Houlcs, Mills and Trees for Scal Marks; and indeed there is occafion cnough, for it is a dreadful Coaft almott the whole length of the Province of Bretagne; yet there is good anchoring ml or 7 Fa. Water, in the Road before St. Germain, and likewife on the $\mathbf{N}$. fide of Grauville; and fo there is all along from Cape Lic Hogu.

## for Sailing on the Coafts of France.

you may anchor d S.cnds arc foul, one, fome under Iflands $A s k$, and 1.
$s$ about Gucruly. rnfis; they lic 4 siggett, called the fc midde they are cnd they lic all makes them the n them. 2. Eaft I L. lic the $\mathrm{d} / \mathrm{m}$ ic Brayer, and a$\sqrt{y}$ is furrounded 1 come near, that Pilot. nd from Capc $L c$ with Rocks alfo, ds and Anchoringc: But Pilots are ufe.
N.by W. diftance th Rocks to clofe, compafs; they are , moft of them unut a Pilot.
bart or Alderney, ecn Sark and Yerealtward of ali the now all the Chane Marincr to look cim.
S. from the Ifland Rocks lic between, direct the Sailors
ce 6 I.s. tis a Tide S. fide of a great of Aitrauches. It Rocks, Shoals and lateft and moft exchicf and moft danlips, no not their rney, and then by even into this Bay, en Cape Le Hogue great many litele nd indeed there is almoft the whole cre is good anchorSt. Germain, and othere is all along
lic of from the Point about a Niles, and within them is another great Rock always Iecn above Water, calld Girand Pierre, and within that many other Rocks, fome under, fome above Water: which I mention to confirm what is fo ofen repeared, that none ought to venture in thefe Parts without Alfiftance.
From thefe Rocks, off of Concale Point, diftance ${ }_{3}$ Ls. lics the Entrance into $\$ t$. Malo, the Courfe W. or W. by S. Before the Haven of St. Malo lies the Inland Sifember, or Cefimbere, on which ftands a Church and a Windmill; by which Marks the Entrance is known at a great diftance. This Entrance has fomany Illands, Rocks and Shoals in it, that it would be tedious to delcribe them, efipecially fecing no body goes in a. mong them without taking Pilots, except on the greatef Ex. gences, and cven Diftrels.

A' B. The Ships ride here within the Town, where they lic moor'd with ${ }_{4}$ Cables, 2 off in the Sand, and 2 faft to the Wharfs in the Town. N. B. It flows here with an ordinary Tide $\rightarrow$ Fa. right up and down.
There are ieveral Chamels into St. Malo, nor can it be otherwife, confidering the Situation, and the maiay Inands in the Bay: it is cnough to hint this, that the Stranger may be fure to take a Pilor, and not venture upon his own Obfervation.
W. from St. Millo, diftunce 2 Ls. is a deep fandy Bay, 'ris an excellent Harbour, where there is good Riding lecure from all Winds; your ride under a great Rock agnintt a Windmill with Trecs about it: ard 2 Ls. N.W. from the Bay is Cape Frebel, or Fiarel, or de Late, for it goes by all thote Names.

From Cape Frebel the Coaft lies N.W. by W. to the Ifland Briack, or Brchat, dift. 8 Ls. and 2 Ls. from that Cape W. lie the Robinets, a Ledge of dry Rocks. Between the Cape and the hiland of Brefoat is the Haven of Brich, on a River of the fame name, and at the bottom of a fmall Bay called alfo the Bay of Brict. Here lic abuudance of Rocks, fo that there is no ftirring any way without a Pilot: tincy ftretch along from Point d' Herquit to the very Harbour of Brehat; take a Pilot for any of wic finall places in the Bay, fuch as Verdonlette, Ilion, the Nourar, St. Quac, Plempoul', © Quemenos, \&c. ali within the Bay. The proncipal Rocks known in this dangerous Bay are, the.

| itirqui, | Pele. | Barbottes, |
| :---: | :---: | :---: |
| Robi:us, | Lejou, | Charticrs, |
| Rubincties, | Bonvillons, | Courtois Bank of |
| Contelf. | Loug Rock, | Garvo, [Rocks. |
| Sablonier, | Calmardier, | Lobraffes, |
| Horraiu', | Mermoire. | Efchaudes. |

Befides an infinite number of Rocks and Ledges of Rocks which are under Water, or have no Name.
N.W. from Brefact lic alfo feveral Rncks, and 4 rocky I. flands, fuch is Tufilet, st. Maad, Daren and Zearn, yet between them and the Point is a Channel called the N.E. Channcl, where Ships may ride in 8 to 12 Fa. Without them 'tis all foul and rocky : 4 Miles from Brelat, and almoft 1 L.
 cfieciaily to the northward, but the Pilots dircet the Sailors better than their Books.

Cranz:ille' lies due S. -f St. Germain diftance 6 is. 'tis a Tide Hawen, and dry at low Water: it lies on the S. fide of a great Pont of Land, from whence begins the Bay of Auranches. It would be endefs to deferibe the numberlels Rocks, Shoals and Hhands in this part of the Coaft; even the lateft and moft exadt Surveys do not do it, but only name the chicf and moft dangerous, refermang to the Pilots; fecing no Ships, no not their own Coafters, venture thro' the Race of Alderney, and then by \% Fr.s and Guerufis, to the fouthward, or even into this Bay, witiout them. All along this Coalt, between Cape Le Hogue and Gravillle, you fee upon the Shore a great many little Houfes, Mills and Trecs for Scal Marks; and indeed there is occafion cnough, for it is a dreadful Coaft almoft the whole length of the Province of Bretagne; yet there is good anchoring int 6 or 7 Fa. Water, in the Road before St. Germaii, and likewilc on the N. fide of Granville; and to there is all along from Cape Le Hugu.
S. from Grautille Point lic fome fmall Rocks, which guide you into the Picr or Harbour; and W by N. diftance 2 Ls. lic a long Ledge of Rocks, called the Ifand Chanfe, or De Chofe: They that are bound along the Coaft, go between them and Gratheill Pomt. There are many other Shoals and Rocks in the Fair Way, but the Pilots take the Charge of them; 'tis enough to hys, that in fecring this Courfe from the Race of Thanchart to Caitaret Pomt, you are to keep at a L. or $1 \frac{1}{2} \mathrm{~L}$. from the Shore: then fteering more wefterly between the Bank do Fiver, Pel Bank and Givalue Bank, when you are paft tiacte, go away S. a littlecalterly, and pals between lome high Ladges of Rocks called Eckrenoue or Eforevere, and others called Fahberther, which will lead you between a great Rock called Le Batf, and the Shore of St. Germain.
S.W. by W. from Granzille is Concale Point, diftance ${ }_{4}$ Ls. between them goes in the Bay of Aurauches, called to from the River Auranche which runs into it. Thwart the Mouth of the River is a fmell Inand, and within that a Hill called Monnt St. Michael, with a Canle and a high Tower upon it, a good Sca-mark, and leen far out of the Bay: The Ground is fo uncertain in this lBay, that you have fometimes from it to ${ }_{1}$; Fa . in a finail compals; and tio Sea cbbs fo far out, that fometimes from the Strand you cannot fee the Water; fo that 'ris a very doubtful Place.

If you would go into this River, or into any part of the Big, you mut take a Pilot, for no Stranger can go faic: the like alto is your cafe at the Entrance at the Town of Concale, for tuder that Point, and even juft before the Harbour, are abundance of Rocks, and fome very dangerous.

In this bay is the Town of Pontor fon, 2 Ls within the Mouth of che River, where is allo a Tide Haven, and you math make ufe of Pilots to go in. From the Point of Concale N.E. by E. lie the Rocks called the Filles; they are all under Water except on very low Ebbs, and are very dangerous: they

Bay of
ic between, the Sailors : tis a Tide cof a great anches. It Shoals and ud moot cxdd moft dano not their mad then by to this Bay, -Le Higut many listle eed there is the whole od anchorrmair, and is all along
hich guide ce 2 Ls. lic De Chofe: them and and Rocks them; 'tis he Racc of L. or $\mathrm{I}^{\frac{1}{3}} \mathrm{~L}$. tween the you are paft fome high and others great Rock

Hance ${ }_{4}$ Ls. fo from the C Mouth of alled Monnt it, a good d is to un1 to 13 Fa . t fomctimes 'tis a very
part of the of fire : the of Concale, pour, are a-
within the , and you of Concale rall under rous: they

Bay of Bruct. Herc lic abundance of Rocks, fo that there is no ftirring any way without a Pilot: they flretch along from Point d' Herqui to the very Harbour of Brebat; take a Pilot for any of the finall places in the Bay, fuch as Verdonlette, Ilion, the Noirar, St. Quac, Thlempoul', Quemenos, \&c. ali within the Bay. The principal Rocks known in this dangerous Bay are, the

| Hirqui, | Pele. | Barbottes, |
| :---: | :---: | :---: |
| Robicus, | L.jou, | Chartiers, |
| Rabincties, | Bonvillons, | Courtois Bank of |
| Contefli, | Long Rock. | Garvo, [Rocks. |
| Sallonier, | Calmardier, | Lobraffes, |
| Horvatur, | Meumoire. | Efc'saudes. |

Befides an infinite number of Rocks and Ledges of Rocks which are under Watci, or have no Name.
N.W. from Brelbat lie alfo feveral Rocks, and 4 rocky I. flands, fuch as Tufilet, st. Maad, Daren and Zearnc: yet between them and the Point is a Channel called the N.E. Channel, where Ships may ride in 8 to 12 Fa . Without them 'tis all foul and rocky : ${ }_{4}$ Miles from Brelat, and almoft ${ }_{1} \mathrm{~L}$. from the Shore, lies a Shoal of Rocks calied the Hearu.; and without them are immumerable Rocks and rocky foul Grounds. All thefe ferve to make out what is faid above, that here is no flirring without a Pilot.
W. of Breljat diftance $2 \frac{1}{C}$ Ls. is the River Tresuire; the Channel gocs in on the E. fide of a little Illand called Er: if you are so go in there, you muft take a B lot alfo, for 'tis all
 that name ; and S. by E. from them ditance $1 \%$ L is Green Iflaint'; you may pafs betwixt this and the Seieni lflands, but not betiseen any of the Seven: Thwart the caltermof of the Siven I/ands lics a Ledge of Rocks, and on the fouthermoft end one higher than the reft, always above Water. Oppofite to thefic Rocks on the Shore is the Church La Clarte, with a high Stecple, which is the Mark to know the Seven Ifands.
W. of the Seven Iflands diftance 2 Ls. lic the Treacle Pots, being feveral Rocks upon a Shoal ; they ftretch E.N.E. and W. S.W. in lengeh + Miles, and it is a very dangerous place; for they are fo Ateep, that within half a Mile of the Roks there is 60 Fa. Likewife by another Rock called La $1: \ldots, 4$ Miles farther W. a little northerly, there is 28 Fa.chuce on is But thefe Rocks and Decps are fo many, that no Stranger an fail

W. fiom the Serern Iflands is the Hove: of Lanion, or $L$ anicur, diftance 3 Ls. and 2 Ls. with ', a River. The whole Coaft on both fides the Seven Iflands is full of Iflands; we necd only name them. becaufe they are fo near the Shore, that they are Guides and Marks to one another: thay are,

| 1. Morville; | 5. Gato ; | 1). Se Taureau ; |
| :---: | :---: | :---: |
| 2. Pomme; | 6. Brufle, or | 11. uil Grand; $^{\text {a }}$ |
| 3. Le Blanch, or the | Burnt 1fand; | 12. Le Grand Tau |
| W'bite Iflund; | 7. Mibenio; | rea |
| 4. St. Sallezolus : | 8. Soline; | and many |

## Directions for Sailing on the Coafts

Be fides thefe there are feveral Rocks which lie off towards the Seven ! /auds always above Water; and without all, 2 Milcs from the Main, lic the Marten and the Menandrenec, Rocks which are dry only at low Ebbs. It is well for the Sailors that here is no trading Port on the Main, fo thefe Iflands and Rocks however dangerous, are in no body's way.

Thole Ships which come from the E. thould go S.W. by W. and S.S.IV. thro' the Channel between the Green Ifland and Se sich I/haids, till the Church of La Clarte bears full S. and then fler iV. or W. a litele foutherly, which carries them into the Iair Way betwecn the Marteone and the Triagons. If they are bound into the Bay to Morlaix or any other Port thereabout, Ict then take a Pilot; nor could they with Prudence venture without one, tho we flould defribe all the Inlands and Rocks which lic on the Coaft with the utmoft exactnefs. The Entrance into Morldix, as alfo into St. T'aul de Leon, or St. .Tob" de 'Toit, or Lantion, and feveral other fimaller places, arc all throngd with Rocks, which no Man that is unacquaintcd with can diliover or avoid withour Direction upon the spor.
The long ragged Rocks of Morlaix in particular, fpread the Coalt from the illand Bafs for $;$ or 4 Milcs E. by S. and E.S.E. and are very dangcrous.

If you are bound weftward, cithcr from Morlaix or any of the Phaces in the Bay, or from Cape Brebat, the beft Courfe, ctipectially for one not well acquainted, is to keep a goodOffing, and $g$ o without all thete Iflands, Rocks aud Shoals, 3 or 4 Lex,gucs from the Shore, more or lefs. as you fee Occafion; then youmay fail by the help of the Charts, and not call for a lilot, till you are off of the Port you are bound to.

St. P'anl de' Leon lies in the Bottom of a large Gulph on the W. fide of the Channcl of Morlaix: On the E.fide of the Entrance is the Ifland Callot, and a Town of the fame Name at the Point of the Gulph; and the whole Gulph is full of Rocks and finall Inands.

The Inc of Bafs bears N.W. from the Mouth of the Gulph of St. P'alll, oppofite to the Point of Rofs Goff; and diftant from the sever Ifands $S$ Ls. S.W. by S. from the Bafs is the Haven of 'Plougoulin, diftance 4 Miles; 'tis a little TideHaven : But the Encrance is as it were block'd up with Rocks and Shoals, as moft of the Havens on this Coaft are.

Farther W. the Coaft now turning weftward, is Guiccry. in a large Bay, andat the Mouth of a fmall River, diftance from the Bu/s o Ls. The Shore is all full of Rocks and Illands for 2 Ls. W. of this Port ; to run in here we muft refer you to the Pilots. The Shoalings alto in this Bay are very uncertain from 2 to 10 Fa .

Aberuchs, or Abbreruach, is the next Haven W. diftance 2 Ls. There are three Channels into it ; the weftermoft is le Grand Cbenal: The middlemolt is le Chenal de la P'endante: The eaflermoft is te Chenal de Maloins. They are very good Chamels to thofe that are well acquainted, but all among the Rocks and Illands, as the reft are, and impracticable for Strangers but with skilful Affiftance, till you come to the weftward of 'Tortfal, when you have a clean Coaft except the

At the Inlan fets S.E. and full Sca,

Between th there fers E.S.E

On the Coa gaiuft the Sun,

Between Gut
At Brehat d
At Morlaix
At the Ifling
In the Offing
fo on all the Co
At $V / b a n t$
$\mathcal{D}^{2 p t}$ t
Betwecn Gu Bewcen Alla
In the Fair $V$
About the $S$
Come no near
45 Fa .
Scven Ls.
Thwart of
Off of $\mathrm{Q} / \mathrm{h}$
Notwithiftan the Coaft of $F$. Rocks, and br derney, and the the Seven Ifla are fuch fron Tide, that it (ctpccially in $t$ the Tide (whet to prevent bei this Coaft.
From V/ban thew, are fix another: The 4. Belanec. Maps name th 4. Triguclin.

If you com may run betw and has 6 to 7

Point Vinti come not too cannot go wit Town, appcar on your $W$. fi
If you are nals, and Pilor Point is a goo
rockstminman mands.
The llac of Bafis bears N.W. from the Mouth of the Gulph of St. P'aul, oppofite to the Point of Rofs Goff; and diftant from the serea llands \& Ls. S.W. by S. from the Ba/s is the Haven of 'Plougoulin, diftance ${ }_{4}$ Miles; 'tis a little TideHavcal : But the Entrance is as it werc block'd up with Rocks and Shoals, as molt of the Havens on this Coaft are.

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South of thefe lics the Harbour of Aberilduc, diftance 2 Ls. and lying upon the Shore of the 'Palfage du Four, fo call'd from a Ledge of Rocks which lie off in the Sca calld le Fours, about a L. Irom the Main; and this is the Channel between.

Welt from this Haven, diftance 4 Ls. lics the Ine of $\mathcal{U} / /$ ant, or Oereffant: On the N. Coalt of the Mland is the Bay of Beninon, or St. Michach, which is clean and deep, and a good Road; at the N.E. cud of the Inand, with 10 to $1_{4} \mathrm{Fa}$. Water, allio a deep Bay at the S.W. end, with 25 Fa. at the Entrance, fhoaling gradually to the dry Srand.

This ' $\dot{B}^{\prime}$ aldaise du Four is the Fair Way to all the weftern Coafts of lirance; and the N W. Point of the little Ifland de (2) whitu, which lies upon the N. end of the Illand of T/hant, is the famous Cape Olpant. Some will have the N.W. Point of the main Illand be the Cape, but Antiquity fays otherwife. This is the Cape, of which 'tis a known Rule in navigating thefeScas, that Cupe Ohant and Cape Ortegal make the Bay of Bulcay, and Cape U/bant and Cape Cormeral make the tiashy Comue'.

> Of the Tïdes.

At Cape di la Migiti, by the Shore, a S. by E. Moon makes sull Sca.

In the Rasc of Aldeney, or Blanchart, N. by E. $N . B$. The Flood Iets thra' the Race N.E. the Ebb S.W.
In all the Iflands N.by E.
The Tides are uncertain, and fet feveral ways, but ordinarily N.E. and N.E. by N.

At Comicale and Gramizille W.N.W.
At St. Malo E. The Flood lets in at the W. Channel, and out at the E. Channel.
(efpecially i
the Tide (w to prevent this Coaft.

From $V$ thew, are $f$ another: 'T 4. Belance. Maps name 4. Triguelin

If you c may run bc and has 6 to

Point Vi, come not to cannot go
Town, app on your W.

If you ar nals, and Pi Point is a or the Mo Shoals to 1 them run r bears E.S.E.
$N^{\prime} . B . \mathrm{Td}$ thot fro very d. ble, th Fair W

From St. the largeft St. Matther into the Co lot, fo I ref
N.B. Tl down.

Bertram St. Matthe Wind; you ter ; and or 4 Ls. lics within it ar in the N. dangerous 1 direct you
S. half 1 diftance 5 the way, and the $B a$ the Fair Wa

Gulph id difc Ba/s :Tide Rocks
ny. in c from nds for you to certain ,
iftance noft is dante: y good nig the le for c weftpt the scall'd as alfo : But $c_{2}$ Ls. call'd Fours, cen. I/Want, of Begood a. Waac Enveftern and $d e$ Iflant oint of crwife. igating ac Bay ke the makes
(efpecially in the Night, or thick Water:) Allo the Setting of the Tide (whether Flood or Ebb) thould be duly allow'd for, to prevent being brought into the Dangers which abound on this Coaft.

From V/bant S.E. towards Conquet Bay, or Point St. Mit. thew, are fix fimall Illands lying in the fame Point one from another: They are, 1. Molene. 2. Quemenes. 3. Beneguette. 4. Belanec. 5. Banetti. 6. Aux Chefticunes. The French Maps name them thus: I. Bannic. 2. Balauce. 3. Molenne. 4. Triguclin. 5. Chrcfienis. 6. Quemenes.

If you come from the N and cannot wcather $V$ /hart, you may run between it and thefe Iflands; 'tis a good Channel, and has 6 to 7 Fa . at low Water.

Point Vintiers is to the fouthward of all thefe Rocks, but come not too ncar it, becaufe of feveral funk Rocks which you cannot go within. When the fouthermoft Houfes of Conquet Town, appear without the Point, then the Vintier Rocks are on your W. fide, or W. by S.
If you are bound into Conquet Haven, make the ufual Signals, and Pilots will come off to you. Under St. Marthew's Point is a good Road between the Fenefiers and the Poinc, or the Moins Blanch, or White Monks: There are fome Shoals to be avoided, calld the Loquejou Banks; to flhun them run right with the Wbite Monks, till St. Matthew's bcars E.S.E. from you.
N.B. To the E. of St. Mattbew's Point, within half Gunfhot from the Shore, lics a funk Rock call'd le Cocq ; 'tis very dangerous, and ought to be known as much as poffible, that it may be avoided, being directly in the coafting Fair Way to Brcf t.

From St. Matthewi's Point you go directly into Bref Water, the largeft and beft Harbour in France: The Courfe from St. Matthew's is E.S.E. within the Cocq ; but the Entrance into the Courfe within the Water of Breft, as it requires a Pilot, fo I refer it to them.

## $N$. $B$. The Flood rifes in $\mathrm{Bref} / \mathrm{H}$ Harbour ${ }_{3} \mathrm{Fa}$. right up and down.

Bertram's Bay is in the Courle to Breff, lying E. from St. Matthew's Point, and is a very good Road for a N.E. Wind; you ride there cafy and lafe in io to it Fa. at low Water; and on the other fide, over-againt the Bay S.E. diftance 4 Ls. lies Dovarncnez, or Pol David, a large Bay; and within it arc feveral good anchoring Places, as at Crodon within the N. Point, and Burec within the S. There lie feveral dangerous Rocks between thofe Bays, which the Pilots will direct you to avoid.
S. half E. from Point St. Matthew's, lics Bec du Ras, diftance $5 \frac{1}{2}$ Ls. bue there are a great many dangerous Rocks in the way, efpecially the Porguet, the Geovalut, the Vandie, and the Bas du Lis : They lic almoft in a Line, and ncar the Fair Way, but not dircctly in it. Bring Conguct Mill over

## Direfions for Sailing on the Ca

 St: Buthere's Point, a little to the W. of the Abbey of W. Wethere's, and an away with them S. by E. till Crodon bear due E. and then a little more calterly, becaule the Bas cut Lis hes a little out, in your way, more than the reft, till the Land on the E. fide of Camaret be hid by Tontiniguct Point; then you are clear of all the Rocks.As you cnter the Chamel between the Great Stevenet and the ericat Corfeat, give the Rocks calld the Kirtons a good liirth, by which you will thun other worle Rocks to the E. of them: And take care to do the like at the $P$ lattes, a foul Ledge of Rocks on the W. fide of the Corform.
N. B. The Tide fets hard upon the 'Plattes, and runs almoft thwart the Bee de Kas; to that in Calms andftrong Spring Ebbs, 'tis very hard to avoid running upon the Thatter. You muft therefore kcep a good Account of the Tides. Allo if the Wind blow hard in from the S.W. 'tis dangerous.

There lics a Shoal W. of the Corfeau, call'd the Point de Seint ; others call it the Scams, diftance half a L. it rums to feaward $4_{4}$ Ls.at Icaft W. by N. and there are feveral funk Rocks upon it extremely dangerous. At the E. end there is a Tail rums from it calld lo Chats, 2 long Ls. and more; and upon that part arefeveral Rocks which lic above Water.

About a L. and half from Bec du Ras there is an Illand up. on the Shoal; and, in a word, the Shoal and the Tail-Bank too, is all cover'doyer with Rocks, Come dry, fome only bare at low Water, and fome funk and never dry : So that it is a moft dangerous Place.

Between 'W/hant and this Shoal lies the 'Pafiage de Liroife, beng a broad Sound reaching from St. Mattlocu's Point 5 Ls. into the Sea.
E.S.E. from Bec du Raslics Hodicme Ray, diftance $2 \frac{1}{2}$ Ls. Give the Shore a good Birth, at leaft a Miles, that you may So without the Rocks, which lie near the Land, 3 to $\&$ Miles E. of Pec dit Ras. There is a very good Haven in the Bay. and a good Road mid-way betwecn the bec du Ras Point, and the Bay.

There are two high Hills on this Coaft (and by which you may know it) call'dethe Shects, which are feen in clear Weather into 55 Fa . Water.
S.E. by S. from Hodicine Bay, diftance 5 Ls. and 7 Ls. S.E. from Bec du Ras, lic the Pcuus, a Ledge of noted Rocks; they lic off from the main Land of Penmark a L. to the S . upon the S. Point of which is a flat fquare Tower, and W. o. the Point another Stecple with a Spirc on it ; allo a Village oppofite to the high Land caftward, which appears like a Caltle with a flat 'Iower at the E. cud of it, and two great Rocks lying clofe under Shore. Tho by all thefe Marks you may be inclin'd to venture in, and perhaps may fafcly do it, yet as it is very dangerous, you had better take a Pilot. Here is a good Hayen when you re in, with; Fa, at low Water. You go
N.N.E. fr trance into when you a have a Pilot in the Entra in there, $y$
S.S.E. ir call'd the $B$ and has fev right over cuibcrou b may avoid and from $P$ The Inland

The N.W Rocks abou vcry good a within the where the r fectly tecur open to a Points, yo cnd into Po fafe again, S.E. and g
E. by N and S.E. if Ledge of them, form from Bc!le 2 L.s. from Quiberon, Between 'f is a Ledge If you ard to Roch 1 run thro' Quibcron Cardinals Stranger thefic Riv that of th ceeding $f$ fometime will hard There ar from $A u$ of the Cl

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## iling on the Coafts of France.

N.N.E. from the E. end of Ciroa. diftance 1 ; 1 . is the Entrance into the Harbour of TPort Lanis; 'tis a noble Harbour when you are in, tho a difficult Entrance, for which you mult have a Pilot. There is alfo a good Road behind Tudy If!and, in the Entrance of the River (enimper Corantc; but if you go in there, you muft take a Pilot.
S.S.E. from Croa, diftance $2 \frac{1}{2}$ Ls. lics a dangerous Rock call'd the Birvidan., which is fometimes dry fometimes not, and has feveral funk Rocks about it. When the Point Lay is right over Point de Croix, and the northermoft Wind-mill on (.) uiberon bears E. by N. then you are thwart this Rock, and may avoid it. Going on ftill S.S.E. diftance 5 Ls. is Belle Ifll; and from Penmark it lics E S.E. foutharly, diftance 16 to 17 Ls . The lfland lics fo high, you may fec it out at Sca in 55 Fa .

The N.W. end of Belle Ifle is foul, and has feveral tuak Rocks about it: Yet giving thofe Rocks a good Birth, there is very good anchoring at the N.W. cnd; but the beft riding is within the 1 lland in Satu:on Road, or off of Poine st. \%ulun, where the royal Navy of France may ride in 6 to 12 Fa. perfectly fecurc from a S. a S.W. and a NW. Wind, and only open to a N. and NE. and in calc the Wind flifts to thole Points, you can thift your Moorings allo, and run to the E. end into Port de Lomaria, or Port de St. Audro, where you ate lafe again, and have 6 to ${ }_{1}$ Fa. The Ifland lics N.W. and S.E. and good riding any where all round ir.
E. by N. diftance $=$ L.s. from Belle Ifle, is the Ifle of Hedic ; and S.E. from Hedic, diftance y $\frac{1}{2}$ Mile, lic the Cardinaux, a Ledge of Rocks above Watcr, but with other Rocks about them, founc of which are cover'd and dangerous: And N.E. from Belle Ille lies another little Illand calld Hozat, diftance 2 L.s. from Point Lomaria: And 3 Ls. N. from Belle Ifle lics Quiberon, a Peninfula, for at low Water it joins to the Main. Between Port Lowis and Morbain, at the S. cnd of ir, there is a Ledge of Rocks, which run out to leaward a L. in length. If you are bound from the N. Coalt of France to Nantes, or to Roch 13 ruard, or Vamnes, or Morbailn, you may fatioly run thro' here, within Belle Ifle, and between the Iflands of Quibcron and Hovat, and fo go about to the caltward of the Cardinals, or Cardinaux: But if you do this, I advife every Stranger to take a Pilot at Belle IJle, for the Entrance of all thefe Rivers is yery hazardous on many Accounts, cipecially that of the Loire, and the Vannes: The Ebbs there run cxceeding ftrong becaufe of the great Frefles, infomuch that fometimes in the Vanues, tho it blows a Storm right in, you will hardly ftem the Current with all the Sail you dare carry. There are two Rivers join here, onc from $V_{\text {alnnes, }}$ and one from Auray; and there are many lunk Rocks at the mecting of the Channels, thercfore go in without a Pilot at your l'cril.

> The Setts of the Tidi: and Currents, and the Flowings by the Moon on this Coaft, are as follows:

Without Cape U/pant, a W. and E.N.E. Moon makes full
E. of Fore weme. There is a very good Haven in the Bay, and a good Roadmid-way between the Bec du Ras Point, and the Bay:

There are two high Hills on this Coaft (and by which you may know it) call'd the S/seter, which are licen in clear Weather into 55 la . Water.
S.E. by S. from Hodicrnc Bay, diftance 5 Ls. and 7 Ls. S.E. from Bec du Ras, lic the Pouns, a Ledge of noted Rocks; they lic off from the main Land of Penmark a L. to the S. upon the S. Point of which is a hat fquare Tower, and W. of the Point another Stecple with a Spire on it; allo a Village oppofite to the high Land eaftward, which appears like a Caftle with a flat 'Yower at the E. cod of it, and two great Rocks lying clote under Shore. Tho by all thefe Marks you may be inclin'd to venture in, and perhaps may tafely do it, yet as it is very dangerous, you had better take a Pilot. Here is a good Hiven when you are in, with 3 Fa, at low Water. You go our to Sea from it S.E. among infinite Rocks, fome above Water and fome under. You have so Fa. in the Entrance into the Haven, fo that any Ships may go in with lafery, the Rocks only excepted.

The Ifles of Glewan lic off here, diftant from the 'Penns 3 to + Ls. E.S E. And about a L. to the N. of them lie the I/les uns Muttons: The Fair Way lies between all thefe Illands and the Main, and there is a very good Road between them and the Bay of Burec. Being on the N. fide of the Illands, diftance from Burce about : Ls, you have clean Ground, and 10 to 15 Fa . Water. Between the lhands allo is good anchoring in 12 to $1_{3}$ Fu. tho' there is a dangerous Rock lies there call'd the Porctur; ;alfo there are funk Rocks off of the Muttons S.W. by W. running a Miles into the Sca.

Alfo halt a L. from the Glenan S . is a great Rock call'd the Tument, with a Led;c of lunk Rocks tailing away from it W.N.W. ncar half a Difle, yer you have 25 to 30 Fa. on the W. end. Befides thete Rocks, there lies off a Shoal, with leveral Rocks upon it, which are lecn only at very low Ebbs; 'cis calld the Ralfe' "\%ane; it lics a League W. from Cape Cile:an, and + Miles from the Shore, in the Fair Way beeween the Ifle's of Glewou and the Main.

Beween this Shoal and the Main there are feveral other Shoals with Rocks on them, diftance from the Shore 2 Miles : But yc: have clean Ground ro the E. all without them, keeping a L.. from the Shore; and when you are paft the Ifle Verte, 'ris all good clean Ground, and 10 to 14 Fa . Water along fhore to rhe Illand Gromais, or Ciroa.

This I/fe of Ciron lics off about a L. from the Shore, and from Mintton Iflands 7 Ls. E. by S. and E.S.E. The Ifland is known by three Wind-mills on the E. end, the Land high and feep, and the W. cnd flat and loaping ; it lics off of Blavet, that is, Port Louis, a litele wefterly. Under the E. end there is good Anchoring in 6 to 7 Fa . fafc from a S.W. as under the N.E. Point you are from a W.S.W. and N.W. Winds; but at the S E. cond it is rocky and foul.
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In the Bay, Point, and which you clear Wea-
${ }^{1} 7{ }_{7}$ Ls. S.E. ocks ; they S. upon the f the Point oppofite to with a flat ag clolc un: inclin'd to ; it is very is a good

You go above Warance into the Rocks
ic Penus lic the Ifles Iflands and , them and Iflands, difind, and 10 1 anchoring there call'd he Muttons
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Shore, and The Ifland Land high lics off of nder the E. a a S.W. as and N.W.
runthro'here, within Belle Ifle, and between the Iflands of Quiberon and Hovat, and to go about to the caftward of the Cardinals, or Cardinanx: But if you do this, I advile every Stranger to take a Pilot at Belle lfle, for the Entrance of all thete Rivers is very hazardous on many Accounts, clpecially that of the Loire, and the Vannes: The Ebbs there run exceeding ftrong becaule of the great Frefhes, infomuch that fomerimes in the Vannes, tho it blows a Storm right in, you will hardly ftem the Current with all the Sail you dare carry. There are two Rivers join here, onc from Vanner, and one from Auray; and there are many limk Rocks at the mecting of the Channels, thercfore go in without a Pilot at your Peril.

## The Setts of the Tides and Currents, and the Flowings by the Moon ont this Coafe, are as follows:

Without Cape O/bant, a W. and E.N.E. Moon makes full Sca.
At St. Matthew's Point, a S.W. and N.E. Moon makes full Sca.

At Breft, a S.W. by W. and N.E. by E. Moon makes high Watcr.
In the Broad Sound between Uflant and Point de Saint, a W.S.W. and E.N.E. Moon makes fill Sca.

The Flood fets flrong upon the Ifland $V / h a n t$, and to the foutheard of it upon the life of Malenc, as allo thro' the Broad Sound into Brefl Harbour.

It likewile fets with a great Rippling along by St. Aatthew's Point, towards the Palfage de la Four, and thercfore mult be accounted for by thofe that come from $O$ Othant.

At Bec du Ras, a S.W. by S. and N.E. by N. Moon makes high Water: The Flood fers very ftrong there, and thro' betwixt the Grand Stevenet, fomewhat thwart over towards the Courfeat, with very great Ripplings over the Plats.
It fets allo from thence N . and by W . inwards to St. Mattheew's Point; thercfore near the Bee du Ras, you muft, in Calms, take heed you be not carricd away with the Current, as alfo in Storms and hard Weather cor of the N. or S. 'Tis not a little dangerous coming into this Chanacl, efpecially with an Ebb, or Out-fall.
'Tis obferv'd, That on moft part of the Coaft of Bretagne, and the Iflands thereabouts, a S.W. and N.E. Moon makes high Water: But within the Havens, Rivers, Indrafts, Bays and Crceks, a S.W. by W. and N.E. by E. Moon, or a Poiuc later, according as the Havens or Rivers lie deep in the Laid.

Nor is there any Setting or Running of the Streams to be reckon'd or allow'd for; but the Flood here, as on the Coalt of Spain, (by the fwelling of the grat Occan) comes right againft the Coaft, and fo runs only into the Havens: The Ebbs, on the contrary, go thwart from the Shore feaward as it falls: So that the Courle of none of the Sereams is to be perceiv'd, unlets it be a little thro' or about fome Points of Illands, where the naturalCourle of the Tide is interrupted by the faid tilands, thereby

## Diretions for Sailing on the C

therey'y cuufing Feddies, and uncertain "'hirlings of the Tide 10 the lecerard of the faid Inands, w. ought to be carcfully allowidior.

The Depth of Water.
The Ife of $T /$ /hant bearing about S . from you, may be feen when you are in the depth of so Fa.
s.W. from $V / /$ int, about 6 I.s. off, you have 75 Fa. Water, and may fee the Land from the Poop.
In the Broad Sound, between Point de Saint and O/hant, You have +5 Fa. deep: About a L. without Point de Saint it is 6 and 95 Fa. And $P$ Point de saint may be feen when you are in oo or 65 Fa . Thwart the Rocks of Penmark, and the Hles of Glinan, you may fee the Land, when you are in 55 and 60 Fa.

You may fec Belle Ifle from below, when you arc in 56 Fa . but upon the Round-Top in 60 Fa.

Between the $F^{\text {Fannes }}$ and the Loyre is another River, call'd the Vilaine; the Entrance lics E.N.E. from the Ifle Hedec, ditance 6 to 7 Ls. The Points of Penvis on the N. and Pirto on the S. make the Entrance of this River. Between the two Riversliesthe Town of Crozic, making the Weftmoft Point of the Mouth of the Loyre, a Place of much Shipping for Wincs, Brandy, Salt, ©̛c. and w: a the Vilaiwe; Ls. lies the Town of Ruche Barnard, high the Country : If you are bound up, take a Pilot; but for C'rozic a thort Direction ferves, which is only to avoid a Sand call'd the Four, off of Crozic, by rumaing to the feaward of it, and of the Ifle Dounet, which lies on the S. fide of the Eutrance of the Vilaiue: On the N. fide of the Thmet yora have a good Chancl up the River, and then you are clcar of all Dangers; you may go clofe to the Ithind on the W. fide, but the E.fide is foul, and muft have a hare Birth given it.
S. F. from C.Yozt lies Poulgueh, a Village with a high Spire Stecple, diftance i L. which is the Mark for the Channcls of both Rivers. To cnter the l-ilaine, you mult leave it on the Sturboard; and to cuter the Loyre, on the Larboard-fide. A L. ofl of Crozic Point, W. into the Sca, lies the N. cud of a great Sand call'd the Four, on which are four Rocks, fecn at low Water; they lie N. and S. $1^{\frac{1}{2}} \mathrm{~L}$. in Iength. When Point Petreis bars N. and the high Spirc of Gucrande N.E. by E. half cafterly over Crozic, then you are thwart the S. end of it ; and of the N. end, when P'envers bears N. a little wefterly, and Crozic E. foutherly.

To fail into the Loyre, and up to Nantes, our Pilot-Books direct you from Bell Ille to St. Naミaire, and then to take a P'ilot; but as no Stranger can go the length of Nazaire but with fome Dificulty, I advife to take a Pilot at Bcll $1 / l l$. There are leveral Banks lying in the Mouth of the Loyre fo uneven, that at one calt you have ${ }_{5} \mathrm{Fa}$ and at the next but 8 or 9 ; and as fome may be more uneven, 'tis much better to take a Pilor both in and out, where thofe Dangers begin.
S. of the S. Point of the Loyre lics the Bay and Ifland of
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igh Spire anncls of it on the fide. A end of a s, fecn at en Point J.E. by E. S. cud of wefterly,
ot-Books to take a saire but Bell Ifle. re to uncxt but 8 better to gin.
Ifland of
the bot-
the Ifle of Rhec: fo you may cdge to the iliand into 4 or ; Fa. and that depth will carry you into the Road of St. Matrins; there you have any depth from 3 to 6 Fa .

If you would go thro', and not anchor in St. Martins, run on in the Channcl of Pertuis Breton till you bring tine Mouth of the lietle River between St. Michacls and the Channel of Lutcon right over the Point de l'Aguillon, and run with that Mark quite thro' betwecn Point St. Alare on the Main, and Point Sablonceaux on the Ifle of Rhoce; and by that Courle you will go clear of the Lavardize.

The Lavardine is a Bank half a L.cague from the S E. Point of the Ifle of RJee, between that lhand and the S. Poine of the Harbour of Roche'lle; 'tis dry at low Warcr: Betweca it and the Rbe you have 12 to 14 Fa. Water. From the Point $S t$. Marc, there is a Sand called La-mere, which ftretches out half over the Channel, fo that kecping on the Coaft of the lland you go clear of them bork.

When in this Courfe you bring the great Steeple of Rechet cven without the Che de bois 'Pount, and the N. Point of the Plomb a Ship's length withone the S. Point, then yougo right with the Lavardiunc; but bring Point Courcol duc E. and you may be certain you are gone clear of it; and may run boldy into the Road of Blafgitis, or S.E. by S. to the tje dic Aliv, as you pleale.

From Rbee to Oleron there is a broad Channel, called $P$ er . tuis d' Antioche' ; the Courle is S.E dillance from the Ife Dicil ${ }_{16}$ Ls. On the fide next Oleron there lic the Antiocibe, the Mater, the Repos, the Longee, all Sands and Shoals; go on S.E. only keep ucarer the Rbee than the Oleron, and you mits them all: if it be night, come no nearer the N . cud of Olcena than 12 Fa .
If you would go into Roclsel, take a Pilor, tho the Harbour is not difficult except to a Siranger: But if you go forward, obferve that from Cbe de Bois, which is the N. Point of the Entrance into Rochel, to the Iflc of Aix, is S. by E diftance 2 : Ls.
$N$. $B$. Weft from the Ifle of Rbee, diftance it or 12 Ls . of ${ }^{-}$ to Sea, lie fome Banks called Les Rockes Bomues, on which there are fuch Overfalls, rhat in fome places you have 2 or 3 Fa and in a Caft or two 30 Fa. You may ride on the S. fide of thofe Banks in $3_{0}$ Fa, and on the N. fide there is at leaft 60 Fa. This makes it very dingerous coming on thofe Shoals indark Weather; and in Storms the Se.a breaks very terribly upon them. Upon the Banks called the $V$ ertes, which is but a Mile of them, is even Ground, and $j 0$ to 60 Fa.

Between Point Angolin and Cbatiluillon lic the BlaSgurs, a good Road in 4 to 7 Fa. If you are turning thro' the Channel, be fure to give a good Birth to the Point of Chatilaillon, becaufe of Rocks which lie Weff out into the Sca, for a Lcag, and half from the Point, all wender Water: alfo the Coalt is fill of ftony Banks and funk Rocks, all from Point da Chou to Point Conril.
both Rivers. To enter thel'ilaine, you muft leave it on the Starboard; and to enter the Loyre, on the Larboard-fide. A i... off of Crozic Point, W. inte the Sca, lies the N. end of a geat Sand call'd the liour, on which are four Rocks, feen at low Water; they lie N. and S. $1^{\frac{1}{2}}$ L. in length. When Point P'eries bears N. and the high Spire of Guerande N.E. by E. half cafterly over Crozic, then you are thwart the S. end of it ; and of the $\mathbf{N}$. cod, when Penvis bears N. a little wefterly, and Crozic E. foutherly.

To fail into the Loyre, and up to Nontes, our Pilot-Books direct you from Bell Ifle to St. Nazairc, and then to take a lilot; but as no Stranger can go the length of Nazaire but with fome Difficulty, I advife to take a Pilot at Bell Ifle. There are leveral Banks lying in the Mouth of the Loyre to uneven, that at one cait you have 15 Fa . and at the next but 8 or $\rho$; and as fome may be more vaeven, 'tis much better to take a Pilot both in and out, where thofe Dangers begin.
S. of the S. Point of the Loyre lies the Bay and Ifland of ㅊurmotiters, called allio the Bay of Bourucuf. At the bottom of the Bay lies the Inland of Boving, wholly covet'd with Salt-Pans. Frem Bell I/le to Normonftiers the Courfe is E.S.E. diftance $;_{3}$ Ls. (io firt E.S.E. till you bring Abbe Blanch in Normonfticers to the northward of the Trees over the Abbey, then E. by N. till the Abbey comes without the Caftle, then E.S.E. again, till you are within the Moin or Monk Rock; and when the Barr de Minns opens from the E. Point of La Foplia, there you may anchor, in 6 to 7 Fa. and take a Pilot if you would go farther in.
$S$ by W. from Normonficirs, difance s Ls. and from Bell Jhe' wo L.s. S.E. lies the lfle' Dien, called in tome of the Charts Meas: there are fome banks in the Farr Way, but there is 5 so 7 Fa on them at leaft, and in the Fair Way from Bell Ifle is ${ }^{\text {to }}+\mathrm{Fa}$. There are ; Windmills altogether in the middle oi the liland, which is Mark dufficient to know it by: 'tis a bad Road, and a high raging Sca comes boiling and roaring up, as if it came from a fibterrancan Paflage under the Ifland. The bef riding is on the N.E. fide, but it is but indifferent any where : the N.W. is flool tar into the Sca at leatt 2 Ls.

From hence there is a fair Strand noon the Coaft the Pertuis Rerion, and the Ifle of Rise : the Courle from the Ifle Dien is $\therefore$ If: by E. diftant 13 Ls. In the fair Way of this Courfe lie the dangerous Rocks called the Barges of Ollouc; they are feen at low Water, being aboue half a league from the Main, and - Is trom $L e$ ! lle \%icu. From thence the Courfe lies to $L e$ Yoris SE. by B. a I.s and to Pertuis Breton \& Ls. You may anchor in the way before Le Sables d' Ollone in 8 to no Fa.

Pertuis Bretnn is the Name given to the Channel on the N. of the Ifle of Rhee, between that Mand and the Main. In pafing this Channel, the beit Courfe is to go nearer to the Main than to the Itland by one fixth part: in this Courfe you have 10 to 1 ; Fa. but when you bring the Fort of St. Martins en hear S.S.W. and S.W. by S. it will be thoaler; then you are put the Bunk, which rums off from the lle $d$ 'Oye to the N . of
ave it on the ard-fide. A N . end of a ocks, feen at When Point le N.E. by E. he S. end of ttle wefterly,

Pilot-Books hen to take a Nazaire but : at Bell Ifle. Loyre to unc next but 8 ach better to s begin. and Inland of At the botolly covet'd the Courfe is Abbe Blanch jver the Ab th the Caftle, Mouk Rock; Point of $L a$ ake a Pilot if
d from Bell of the Charts ut there is 5 rom Bell Ifle in the middle it by : 'tis a ad roaring up, er the Ifland. different any 2 Ls.
the Pertuis c I/le' Dicu is his Courfe lic they are leen c Main, and rfe lies to Le s. You may to 10 Fa . anncl on the ic Main. In hearer to the is Courfe you i St. Martins then you are to the $N$. of
N. B. Weft from the Ifle of Rbee, diftance $\mathrm{r}_{1}$ or $\mathrm{I}_{2} \mathrm{Ls}$. off to Sca, lic fome Banks called Les Rocles Bumues, on which there are fuch Overfalls, that in fome places you have 2 or 3 Fa . and in a Caft or two 30 Fa . You may ride on the S. fide of thofe Banks in 30 Fa. and on the $\mathbf{N}$. fide there is at leaft 60 Fa. This makes it very daugerous coming on thofe Shoals in dark Weather; and in Storms the Sea breaks very terribly upon them. Upon the Banks called the Vertes, which is but a Nile of them, is even Ground, and 50 to 60 Fa .

Between Point Angolin and Cbatilaillon lic the Blasques, a good Road in 4 to 7 Fa. If you are turning thro' the Channel, be fure to give a good Birth to the Point of Chatilaillon, becaufc of Rocks which lie Weft out into the Sca, for a Lcag. and halt from the Point, all under Water: alfo the Coalt is fill ot ftony Banks and lunk Rocks, all from Point du Cbat to Point Conril.

The Lougee is a Bank of Sand, the S. end of it reaches within 2 Miles of the S. end of Aix. S.W. from it, and within $\frac{1}{2}$ a L. of the N.E. fide of Oleron, it lies extended 2 Ls. in length, and is dry at low Water at cither end, but towards the middle has 2 to 3 Fa . On the other fide of the Aix next the Main, lics the Dennet, or the lfle $d^{\prime}$ Enot; and E. 2 Miles is a Sand called the Mancs, which is dry at low Water. S. by E. from the 1fle d'Enot lies the Entrance into the River Cbarente, which comes down from Rochefort; if you are bound in, take a Pilot at Aix: This River ebbs almoft dry a great way into the Land: Allo if you are bound to Brouaje, do the fame; or if you are for venturing fo far, you may take you: Pilot at L' Ific Madam, for both Channels. Taking Pilots here, it is ufelefs to give the Marks for the Entrance of thote difficult Channels, which are to full of Sands and Shoals, that no Chart can give fufficient norice of them.
S. by E. of Oleron is the Paffage called The Matumufor, Icading to Point du Gardour on the main Land of Sanctonge : It lics in from the Sca E. by S. along by Point Gardour E. by N. to the Mouth of the Scudre; the Pallinge has depth for the greateft Ships; there is 3 Fa. ar low Warer. From the S. end of Oleron there lies a Sand called the Gatefeata, ftretching :- a L. towards the Point; and at the Entrance of the Sidide lie 2 Sand Banks, which ebb dry every Tide.

The Grand Barret is a Bank of Sand to the S. of Derent, if you come from the Sea, you are upon it betote you open with the River Scudre; but when you tee the Mouth of the River, you are quite over it, and may cither run up the River, or to the northward within all the Sands, and within O/ering quite to Rochel, by the Chanal deferibed for coming touthward before; or if you are to lail farther, go our thro' the Pertuis d' Autioche, but the Directions for the fame Chamels South wall be fufficient, if read backward, with due Allowances tor the Courfe north.

## Directions for Sailing on the

In failing along this Coalt, befides the Directions given for particular places, rake the following general Oblervations to make ufe of as you find occafion.

On the.W. fide of the Inland of Oleron, a little to the northwards of Sablere, and the great Bank of Choove, there is a Road where you may anchor in; to $;$ Fa. off from; Rocks that lie near the Shore. The Coait to the northward of this Road, as far as the N. Point of this ifland, is very rocky, callid Rock de 'Purley, and the Shoals reach a great way off the Shore.

So likewife to the fouthward of this Road, for above 2 Ls. the Shoal Water reaches about half a Leag. from the Shore : but near the $S$ Point of the Inand Oleron, to the northward of Point du Tour de Tirre, you have a fair Road with 3 , + , or 6 Fa. Water. In all thele mlands, as allo upon all the frituch Coaft laft defcribed, from the Barges of Ollone to the River of Bourdenux, a S.W. and N.E. Moon makes fill Sca.

When you have ss Fa. Water, you may fee Bell Ifl. from the Deck: you may likewife fec I/le' Dicu from off the Deck, When you are without it, in 35 F. deep, or in 60 Fa. When it is clear Weather. When you are about 9 Ls. W.S.W. from I/fe Dict, you will have 45 and 46 Fa . the Ground full of fine Imall Stoncs, no biggerthan coarfe Sand.

Voumay fec the Land of Ollone from off the Deck, when you are in 25 and 30 Fa . The N . cnd of the ifland of oleron, as allo the Inc of Rhee, may be feen from off the Deck, when you are in 28 and 30 Fa.

As loon as you difcover the Ifle of Rbee, you will fee a high Tower, and a Houfe upon it, as alfo a Windmill upon the Strand, and + or 5 high fandy Hills.

When the Inland of eleron appears, you will fee a high Spire upon a red Point, with teveral Trecs not tar off; and = or $;$ ragged Sand-hills to the fouthward of it.

From the lfle Dien to the Garonue, or as the Sailors call it the River of Bowrdeatex, is S.E. by S. diftance 27 L.s. The Land from the Paffage de Matmufon lics S. by W. ; Ls. to Pome de la Contore, which is the N. Point of the River, and is all along full of white Sand Hills: But beyond the River to the fouthward'tis low and flat, with a few Sand-hills, and thote black. W of the Point La Coubre lics a Bank called La Coutere Terve, lying half a L. N. and S. The Channel between is called La Pettze Palfe, in which you have but 6 Foor at low Water. More to the W. of Point La Conbre is another Larecr Bank, called Matelier, diftance a L. and lying a L. in length to Scaward: and between thefe two is a third Bank without a Name; but as it makestwo Channels between the Matelter and the Conbre Tore, thofe Channels are called Le epas de Cotbre Terre, and de Cherantais: and with. out all, to the S. right off of the middle of the Matelier, lies another namelets Bank of Sand, diftance $\div \mathbf{L}$. The Channel betwecn is called 'Pafs de la.Matelier, thro' which you have \& to 9 Fa. at low Watcr, lying S.W. and S.W. by W. from Pount de' Contore, diftance 2 Ls.

Again, S.W. by W. from this laft fmall Bank, diftance $1 \div L$. lies another Sand on which is but $;$ Fa. at low Water. All a fla

## Sailing on the Coafts of France and Spain.

tions given for blervations to
c to the northocre, there is a from ; Rocks thword of this y rocky, calld off the Shore. or above 2 Ls . the Shore : but northward of with 3 , + or 6 all the 1 rin mo to the River Ill Sca.
Bell 1 jo from 1 off the Deck. Fa. when is is S.W. from $1 / 4 c$ ned full of fine

Dcck, when land of Oleron, he Deck, when
you will fee a Windmill upon
will fee a high far ofi; and 2
the Sailors call liftance 27 Ls. S. by W. 3 Ls. of the River, yond the River pand-hills, and Bank called La hannel betwecn but 6 Foot at rbere is another d lying a L . in a third Bank lis betwecn the hels are called s: and withthe Matelier, L. The Chanvhich you have V. by W. from
take experienc'd Pilots to direct them, the Piace Leing fo very intricate, and the Channe! not buoy'd and mark'd hore, as they are in Holland and the Coafts farther North.

From the River Garonne, the next place of note is the Bal/in of Al calfon: the N. Point of the Entrance into it is call'd Cape Terect, diftance 17 Ls. the Coaft between a low clear Strand, neither Rocks nor Sands, with good gradual Shoaling, from $\mathrm{t}_{5}$ to 2 Fa. the L.and gencrally Forcf-Woods, no River, or Creck, or Town (of note) all the way.

At the Entrance of this Bafin lies an In:and call'd $/ / / e d u T e r-$ ray, from which fevcral Shoals and Sands run off to the E. and to the W. Alfo in the Channcl between the Ifland and Cape Ferret there lics one large Shoal along the fide of the Ifland, and another thwart the End of it, extending almoft the Iength of the Illand. The Fair Way in, is either to the $\mathbf{N}$. of thefic Shoals, between them and Cupe Ferret, or thro' 'Pa/li' de P'apon, between the Mhand and the S. Point ; in the firlt is 8 to 9 Fa and in the laft but 2 to $2 \div \mathrm{Fa}$. at low Water.
In cither of thele Paflages you mutt carefully avoid that particular Shoal running off trom the W . and of the Illand de Terray: If you are bound tarther in, 'twill be needful to take a Pilot at Gupe lervet, for there are many Channels, and difficule Places within, even atter you are pals'd thole Shoals.

From hence to Bayonne you have nothing remarkable: The Coaft of Gafoigne is all a low plain Strand lying N. and S. for the length of ${ }_{23}$ L.s. Bayonne 'fands on the River Addur, the Opening is between two plain Strands, and goes in E. by N. The Sands in the Mouth of the River are often thifting, and very uncertain, by realon of the Frelhes from the Mountains, which are very violent: There are indeed two Matts on the S. fide of the Channel to guide Ships over the Bar, which is otherwife very difficult, having at low Water nor above ; Foor, fometimes not to much; but that is not fufficient tor the Channel atterwards. Here therefore a Pilot is abfolutely ncceffary.
On the N. fide of this Harbour within, lies a great inland Water, at Icaft 7 I.s. in length: It has another Opening allo mento the Sca, ar Cape Bretoon, which is call'd the antient. Alouth of the Adour ; but here is no Navigation except of fmall Boats.
This City of Basonne is the laft Port in Firance, and makes the Bottom of the Bay of Bifiay: For from hence to St. \%olne de Luz, the Coaft turns away inore to the S. St. Yobn de Lu* lying S.W. by S. diftance $;$ Ls. Youmay ride in the Bay in + to 6 Fa. clean landy Gromd. Port de Seccalies at the Botrom of it, a Tide Haven, and dry at low Water. This Bay would need a Pilot, if there were any Ports of note withun it, but as there are not, 'tis hardly worth deterbing. It lies, as above, in the very Bight of the great Bay of Befciy. To the caftward the Land trends away N. by E. Towards Bayonne, and to the weftward it falls away S.W. by W. and then duc W. towards fontarabia : on the E Point itands a Tower calld the Hormidiftance 12 L. tage, which may be feen far out to Sca ; and on the W. Point v Water. All a flat white Houle upon a high rifug Land which 15 a Mark
and is alLarong full of white Sand Hills: But beyond the River to the fouthward'tis low and flat, with a few Sand-hills, and thofe black. W of the Point La Conbre lics a Bank called La Contore Terere, lying half a L. N. and S. The Channel between is called La Pettic Palfc, in which you have but 6 Foot at low Water. More to the W. of Point La Conbre is another larger Bank, called Matelier, diftance a L. and lying a L. in length to Scaward: and between thefe two is a third Bank without a Nar.c; but as it makes two Channels between the Matelier and the Coubre Terre, thofe Channels are called Le 'Pas de Conbre Terre, and de Cherantais: and withcut all, to the S. right off of the middle of the Matelier, lics another namelets Bank of Sand, diftance $\frac{1}{2}$ L. The Channel between is called Pafs de la Matelier, thro' which you have \& to 9 Fa. at low Warci, lying S.W. and S.W. by W. from Point de Coulve, diftance a ís.

Again. S.W. by W. from this laft fmall Bank, diftance $1 \div \mathbf{L}$. lies another Sand on which is but ; Fa. at low Water. All thele Sands and Shoals lic off of Cape Coitbre on the N. fide of the Mouth of the River; and having run thro' the latter Pallage La Matelier, you may be faid to be entred the Channel; but for the River it lelf, whofe Stream is great, and the Entrance broad, they always take Pilots, except they are thorowly acquainted; nor tho they are acquainted, will any Ships of value run the hazard. There are indeed Directions printed in our ordinary Pilot-Books, but they vary from one another, and perhaps few of them are exact; nor do our Mariners in gencral truft to them, but either depend upon Experience, or

## Sailing Directions for the Coaft of Spai of Fontarabia on the River Bidaffoa inclufive aud the Port of Viana exclufiee.



E are now cutring upon the Coaft of Spain, the two Kingdoms of lirance and Spain mecting here- fine abouts: It is not material where the exact Limits are fix'd, 'tis enough to our Purpole to oblerve, that as the City of Bayonne is the laft Port of France, fo the City and Port of Fontarabia is the firft Port in Spain. The Coaft lies as follows :
W. and by S. from St. Yobu de Luz, diftance 4 Miles, lie the Rocks call'd the 'Pignons of St. Anna, near the Shore; and W. from thofe Rocks lics the Bay of Fontarabia, or Fuentarabie, with the City of the fame Name; the W. Point of this Bay is call'd Point F"gucra, upon which flands a Cafte and a Chapel, a little to the fouthward: The River is call'd Bidalyou.
yond the Ruver Sand-hills, and Bank called $L a$ lannel between but 6 Foot at ubre is another $d$ lying a L . in ; a third Bank ls between the nels arc called is : and withthe Matelice, L. The Chanvhich you have V. by W. from
diftance $1 \div \frac{1}{2}$. is Water. All on the N . fide the latter Paf: the Channel; ; and the Eucy arc thorowwill any Ships ctions printed 1 one another, ar Mariners in Expericnce, or
anemansmaneoumwm, fies a groat mland
Water, at leaft 7 I.s. in Iength: It has another Opening allio into the Sca, at Cape Bretoon, which is calldd the anticut Mouth of the Adour ; but here is no Navigation excepr of finall Boats.

This City of Bayonne is the laft Port in France, and makes the Bottom of the Bay of Bu/ciay: For from hence to St. \%obne de Lus, the Coaft turns away inore to the S. St. Yobnde Luiz lying S.W. by S. diftance; L.S. Youmay ride in the Bay in 4 to 6 Fa. clean fandy Ground. Port de Seccalies at the Bottom of it, a Tide Haven, and dry at low Watcr. This Bay would need a Pilot, if there were any Ports of note within it, but as there are not, 'ris hardly worth deteribing. It lies, as above, in the very Bight of the great Bay of Bifcay. To the caftward the Land trends away N. by E. towards Bayonne, and to the weftward it falls away S.W. by W. and then due W. towards Fontarabia : on the E. Point itands a Tower calld the Hirmitage, which may be feen far out to Sca ; and on the W. Point a flat white Houle upon a high rifing Land, which is a Mark for the Port.
But this Port is beft known by a high Mountain, call'd after the Town, or the Town after the Mountain, we know not which, the Mountain of $S t$. \%obn de $L u \approx:$ It is feen above all the Hills in the Councry, and many Leagucs off at Sca. Upon the Top of this Hill there is a Chapel, from whence, they tells us, one may fee into four Kingdoms, viz. France, Spain, Arragon and Navarre: This Hill is allo the Mark at Sca ulfed to know the Place by.

Oaft of Spain, beginning at the Cily and Port affoa inclufive, and ending at the Frontiers of Porrugal,
of Spain, the inceting herexact Limits are oblerve, that ort of Frauce, 'ort in Spain.

4 Miles, lic the Shore; bia, or Finen--W. Point of sa Caftle and iver is call'd

Wch of this Cape lies Port Fafage, diftance : L. a very finc Haven with deep Water ; both thete Pluees require Pilots to carry you in. Going on ftill W. dattance a L. lics the City of st. Scbaftian, a plain and ealy Harbour, yer Strangers generally take Pilots here allo, becaule of other Difficulties after they are in.
W. by N. from St. Sebaftian lics Cape Macheo, or Maribectao, diftance 22 Ls. Between them on the fame Coaft lies the River de Oro, diftance 4 Ls. and Saracus a League from de Oro: Here you may anchor in to Fa. The Coatt of Bufcay is crery where good clean Ground, and good riding, in 20 Fa . from St. Yobn de Luz to Gattaria, which is 7 I s. Gattari, is a round fandy Bay, and good Ground. Late from wefterly Wiads: The Bay is call'd A mg's Haven. Deza is an off Water com-

## Directions for Sailing on the Coafts

ing from the Mountains, diftance from Gattaria 4 Ls. W. And 2 Ls. farther W. lics Montrico ; and 2 Ls. more Handaro in a fmall Bay; and to the weftward of the W. Point of the Bay lics Cape Maclicao, diftance; Ls.

There is a little Tide Haven W. of Macljican, with a Town upon the River named Placentia. Between that Haven and the Cape lies a great Rock clofe to the Land, and another on the Point, calld P Punta de Avclane.
SW. by W. from Cape Machicao, in a large fine Bay, lics Rarmea; 'tis a fimall Haven, but good riding and deep Water. You mult give the E. fide a good Birth, and run in by the W. fide, and anchor where you pleale. S.W. by S. a Ls. farther, is Placentia; there is a fmall River, and the Town lics a litele within it: All thefe are Tide-Havens.

Two Ls. farther W.S.W. and W. by S. is Billoon; it lics 4 Is. up a finall River: The Port is barr'd, and at the E. Point there is a Riff fhoots off, with fome Rocks under Water: The Point is high and rocky, it looks white off at Sca like Chalk, lut is only Stone. Within this Riff you may anchor till a Pilot comes off, for no Ships go in here without ; this Road is $1 \frac{1}{2} \mathrm{~L}$. from the Bar, S. by W.

Weft from the Point off of the Bar at Bilbon River, diftance 4 Ls. is Caftro; 'tis a good Haven, and decp Water from 6 to 8 Fa the Entrance is narrow and decp, being full 10 Fa . but firther in, tho broader, 'tis bur ${ }_{3}$ to ${ }_{4}$ Fa all the way. Between Rillooa and Caffro you have 12 Fa . Water within half a L. of the Shore. Here allio Pilots come off to bring you in.
From Caffro Bay the Courfe is W. by N. diftance 5 Ls. to the Hill of St. Antion', that is, 4 Ls. to Laredo W. and 1 L . N.N.W. to the Hill: You go clofe by St. Authony's Hill, till you come about the E. Foint ; the Haven is large; all the Way to Laredo Bay you have 20 Fa . within half a L . of the Shore.

Thwart St. Anthony's Hill lies a great Ledge of funk Rocks, which you'll know by the breaking of the Sea upon them: The ufual Road is within them, before the Haven, which is built by Hand; the great Ships ride farther out. On the S. fide is another Haven, and from thence runs out a grea: Riff flrecthing from the E. toward St. Autbony's Hill; and from the Village a Tail of Sand lying thwart within it: In the middle of the Sound is 9 Fa. and at St. Anthony's Point 10 Fa.

Two Ls. farther W.S.W. is Cape Ke / $\mathrm{S}^{0}$, lying to the caftward of St. Audero: Thwart of it is large clean Giround, and decp. Water. From this Cape to the S.E. Point of the Peninfula of $S t$ Audero is $\mathrm{SS} . \mathrm{W}^{\mathrm{W}}$. diftance 4 L.s. A little to the fouthward 14 good anchoring in ${ }_{10}$ Fa. Cape Kefigo makes a large Bay ; St. Andern is at the Bottom of it, the Haven is on the E. fide, and the Peninfula, on which the Town ftands, on the $W$.' The Courle to it from the Cape is W. by S. $3 \frac{1}{2}$ Ls. You have any depth here from 7 to :ofa.

[^5]N. B. We find no fetting of the Tides upon the Coaft of Bif. cay; but a N.E. and S.W. Moon makes the higheft Water, and within the Rivers a Point later.

From the Illand of St. Cyprian to Cape Ortegal is 9 Ls. W. by N. and W.N.W. Between them lies the little Bay of St. Mar cus, where you may put in and ride lafe, in cate of S.S.W. or Wefterly Winds, in 7 to 8 Fa. All this Coalt is clean and good, and full of exceilent Ports.
W. from St. Marcus is the little River of Karyns, where is a good Road in 8 to io Fa. but no Town or Haven except a finall Village called Karyns at the W. Point of the Entrance. From hence the Land flretches out with a long Point into the Sca, making a fafe Road under it to the caltward: this Point runs N.W. by W. 5 Ls. and the outmoft Point is called Cape Ortegal.

There is a Caftle upon the Cape, and off of the Cafte is the beft Road duc E. and Landlockt from a wefterly Wiud, cither N.W. or S.W. If you come from the caltward, you fee this Cafte a great way offit Sea ; it looks at a diftance as :f it flood in the Sea, the Hills appearing beyond it.

Off in the Sea, diftance about a L. and N.N.W. from the Caftle, lics a great Range of Rocks; but you may run thro' betwecn them and the Cape in 10 Fa .
S.W. from Cape Ortegal is Cape Prior, being the firf Point on the fide of the Ocean, the Courle is S.W. diftance 10 Ls. betwecn lies the Haven and Town of Siverus, a very good Harbour and decp Water from 5 to 12 Fa. In all thetc Ports and Havens for fome Iength there has been no need of Pilots; all the Coaft is clean and bold, the Havens clear, deep, and all the Dangers (if any) vifible, fo that you may fail on almoft any where, and run in any where.
In this Haven of Siverus the $N$. fide of the Entrance is rocky and foul; bur the Rocks are all above Water, and the W. fide is all clear and decp, to that you will eafily lec your Courfe. The Land on the $W$. fide is high and fteep, clote by it you have 12 Fa. and within the Haven ro Fa. You may run boldly up till you come to the Town, and anchor before it in ${ }_{7}$ Fa. good Ground.

Cape Prior is a rough tocky Point, at a diftance it feems to be cover'd with People looking to fee you come in; but when you come on Shore, you find tew Pcople there. This is the firt Cape that is dangerous; you muft give it a good Birth, for it is full of Rocks ail about it, tho molt of them are above Watcr, efpecially two great ones.
N. by E. from Cape Prior lies the Haven of Fero!, it lies in a little Bay, and you fee the Haven open it felf as toon as you enter the Bay; the Entrance lies E. by N. going in between two high Lands: as foon as you are in, edge up to the $\lambda$. clofe by the Point, and anchor under it, becaule to the W. of the Village the Ground is not good, but flat and foul. The Entrance is to narrow, that you may tofs a Stonc athore on cither fide; yet 'tis a clear Chanuel, and not lels than 15 Fa. in the midway. But there being fome Difficultics in coming, into tinis Port from the Groyne, or from the W. they generally

The ufiual Road is within them, before the Haven, which is buile by Hand; the great Ships ride farther out. On the S. fide is another Haven, and from thence runs out a great Riff flretching from the E. toward St. Anthony's Hill; and from the Village a Tail of Sand lying thwart within it: In the middle of the Sound is 9 Fa. and at St. Antbony's Point 10 Fa.
Two Ls. farther W.S.W. is Cape Kefgo, lying to the caftward of St. Andern: Thwart of it is large clcan Ground, and decp Water. From this Cape to the S.E. Point of the Penintula of St. Andero is SS.W. diftance 4 L.s. A littic to the fouthward is gond anchoring in to Fa. Cape Ke/go makes a large Bay ; St. Andern is at the Bottom of it, the Haven is on the E. fide, and the Peninfula, on which the Town flands, on the W. The Courfe to it from the Cape is W. by S. $3 \frac{1}{2}$ Ls. You have any depth here from 7 to 20 Fa.
> N. B. Our Pilot Rooks obferve that St. Andero is a very good Harbour, but not fafe to go in or out without a Pilot.

From St. Andero to Settevilles, a fimall Tide-Haven, the Courfe is $W$. diftance ${ }_{4}$ Ls ; thence to St. Vincent ${ }_{4}$ Ls. more, the Courfe the fame: Thence to Idone or Lianes 3 Ls. the Courfe ftill W. Thence to Rio de Sella, diftance 5 Ls. the fane Courle W. But then from de Sella to Villa Vitiofia the Courfe changes to W.N.W. diftance 6 or 7 L.s. All theic little Bays and Havens require Pilots, and they are always ready on the Ieaft Signal.
Weft from Villa Vitiofa lies the Point of Sanfon, on which is a little Tower; between the Town and the Tower is good anchoring in 6 to ${ }_{7} \mathrm{Fa}$. as there is alfo on the W. fide before the Town.
Weft of Sanfon is the Haven or Pecr of Gyon ; and a L. W. of that lies the Bay of Torres; and 3 Ls. N.W. of Torres lics the Cape de Pinas: You muft have a Pilot to go in here. Within the Cape lies Aviclos, diftance + Ls. 'tis a Tide Haven, tho grcat Ships may go in at half Flood, but you muft have a Pilot to guide you in.

From Aviclos to Ltarca is 3 Ls. and thence to Ribadeus -I s. all W. by S. From the E. Point of the Haven of Ribadicis there rums off a Ledye of Rocks toward the W. Shore, yon may tound about it in $4_{4}$ Fa. to $4 \frac{1}{2}$ : But if you go into the Port, you mult have a Pilot to carry you up.
Weft from Ribudens lies a litele Tide.Haven, diftance i L. They that come along Shore from the $W$. may miftake it for Ribudens, but when they tee the Marks they will cafily diftinguifh.

Cape de Brilo, or de Roturel, lics N.W. from Ribadeus, diftance 6 I.s. A little to the weftward of it lics the Bay of St. Cyprian, you may anchor in it near a Village on the W. fide of the Bay in 9 and $10 \mathrm{Fa} . \quad 1 \frac{1}{2}$ L. W.N.W. lies the Ifland of St. Cyprian, before the Haven of Vizerus; and by this uland you may know the Haven, it being the Mouth of a River which gocs far up into the Country.
it you boldly ${ }_{7} \mathrm{Fa}$. go Cape be cove you con firt Cap it is full Water, N. by a litelc 1 cutcr th two hig clofe by the Vill: Entranc cither fic in the m into this bring $\mathrm{P}_{\mathrm{i}}$ occafion

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The from 50 8 Fa. jul you are any part ral Road

Duc 1 ning out Ls. and The Ha This is a of Rock foul, but $\operatorname{up}$ W. 2 Ground moftal
S.W. diftance to Sca; which th bcing re off of th a great niards runs out Bay, ftr you lail
on which cr is good dc before
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deus, dif. he Bay of on the $W$. sthe Ifland $d$ by this outh of a
 it you have 12 Fa. and within the Haven 10 Fa. Youmay run boldyly up till you come to the Town, and anchor before it in ${ }_{7}$ Fa. good Ground.

Cape Prior is a rough rocky Point, at a diftance it fecms to be cover'd with People lookn'g to fec you come in ; but when you come on Shore, you find few Pcople there. This is the firt Cape that is dangcrous; you muft give it a good Birth, for it is full of Rocks ali about it, tho moft of them are above Water, efipecially two great ones.
N. by E. from Cape Prior lies the Haven of Ferol, it lies in a little Bay, and you lee the Haven open it felf as foon as you enter the Bay; the Entrance lies E. by N. going in between two high Lands: as foon as you are in, edge up to the N. clofe by the Point, and anchor under it, becaule to the W. of the Village the Ground is not good, but flar and foul. The Entrance is fo narrow, that you may tofs a Stonc aflore on either fide; yet 'tis a clear Chaneel, and not lets than 15 Fa. in the midway. But there being fome Difficultics in coming into this Port from the Groync, or from the W. they gencrally bring Pilots with them ; but from the N. there feems to be no occafion for it.

From Ferol to the Groyne is 3 Ls. the Courfe S. and S. by W. tho Cape Prior feems to open the grear Bay, in whic! the Entrance to the Groyne is faid to lic; but taking the Groyne as a Harbour only, 'tis quite otherwife.

The Entrance into the Groyne is wide and fair, the Depth from 50 to $35,30,20$ and io Fa. and yon may anchor in of to 8 Fa. juft within the Caftle before the Town if felf; but when you are entred, the Pilots always come off to bring you to auy particular place of the Bay you pleafe, for there are leveral Roads and Towns witinin the Entrance.

Due W. from the Groyne, oppofite to a Point of Land running out into the Sea N . lies the Illand of Cijarga, diftance s Ls. and from Cape Ortegal 18 to 19 Ls. S.W. and S.W. by W. The Haven of c) uleres lies juft within it S. by W. or S.S.W. This is a good Harbour for Ships of any Burden, for 'tis clear of Rocks on all the W. fide; the E. Shore indeed is a little foul, but keep the middle of the Chanuel, and you may run up W. 2 Miles, and anchor before a Village in 7 to 8 Fa. good Ground : The Town of Queres is on the Larboard fide, almoft a League up the River.
S.W. by W: and W.S.W. lics Cape de Bylem, or Beillom, diftance ${ }_{12}$ Ls. 'tis a high fteep Point, and feen a great way off to Sea; behind it lies the grear Sound or Haven of Monn/fe, of which this Cape may be laid to be the E. Point, the Entrance being reckon'd to begin herc. Scveral high ragged Rocks lie off of the Point ; one of them looking black, and rifing up like a great round Stecple, is called the Monk, but by the spa, niards the Munick: There is allo a Range of Rocks which runs out from the Point thwart the Entrance into Moithlie Bay, frectching S.W. by S. three Cables length or more. When you fail with the Shore, 'tis all double Land.

There

There is good anchering in this Sound, but it is not fo ealy to go in, as at fome other of the Harbours upou this Coalt: there are alfo no lefs than three Chamels to go in by, fo that 'is beit, if you are bound in, to take a l'ilot at the l'omt.

Eour Le. IV. from Cape Biclion lies Cope de Toriane, and from thence due N . and S . 'tis : I.s. more to Cape F'iniferre: In the Courfe between is a dine fandy Bay, large and decp, running into the Land, with a Bight at the ntmoit cad turning N . 'tis very good riding here for northerly' or N.E. Winds. The beft Road is under the Lee of a great Rock, which lies off the N.Entrance into the Bay; under the fame N. fide farther in, lie fome Rocks under Water; but you will find them by founding, they are but a fcw; befides, they lic out of the way, for 'tis only giving a Birth to the Shore, and you have Water coough and cleati Ground.
N.B. Off from Cape Finiforer N.W. by W. ya I.s. from the Land, there lies a great black Rock in the Sca above Water ; it appears at a diftance like a larec Boat or Vet: fel turn'd bottom up. Thote Ships thould he carctul of it. who coming from the fouthward about that diftance of $4=$ L. from the Shore of (ialicia, pafs thro' the Parallel of ${ }_{44}$ d. 20 to 30 m . the Rock lying about that I.atitude.
E. from Cape Finiferre, diftance i L. lies the Haven or Port of Seche' ; 'tis called Corcocia by tome, by others Corch, by others Corch Bavome: there are two little landy Bays between this and the Cape; thic weftermoft is the largeft, and lies juft under the Cape: and by the fecond goes in this Haven of Corch: there is good anchoring in them both. On the E.fide of the Entrance into this Haven lic feveral Rocks, one is a sreat one above Water, and S.S.W. from it is another under Water. But fyou go in N. you go clear of all; and as you will ice the Town of Secte beforc you N.E. you may run up ro it, and anchor there in 6 to 7 Fa hard clean Sand.

From the Cape. Icaving this Haven to the N.E. the Coaft lics S.E. to Mores, or Moitros, diftance 6 Ls. In this Courle are more Rocks than have been feen together on all the Coaft fiom Bilboa to the Giroyne. As foon as you are about Cape Finifer re, you fee a high ragged Hillupon the Coaft ; it runs to far S. that you may lee it allo from the Sca off of Mores, and 'tis a Mark to know the Coalt by. As to Rocks in the Sca, here are very many, particularly E.S.E. from the Cape, diftance 3 Ls. lic a great Range all under Water, and S.E. by S. from thofe lic another Range above Water. W. by S. alfo from Mores there lic a great many Rocks as well under Water as above ; and right in the midft of the Entrance lies a great lunk Rock S.E. off from Mount Lauro.
> A. B. Mount Latho is a high Hill upon the N.E. Point of the Sound of Mores; and is feen a great way off to

Chamel he the Entranc you appear N. B. fionk the S.E. by dra; betw there is a from the S all the wa the Entrai you may thoaleft, Trade, an the Ifland within a li middle of S. of, and your run or and juft good Gro
S. of th I.s. lie il they appo Sca runs no more Hills upo molt Hill lows bet the caften being an known; cnd is a

Thele Sound of muft go ncl, till very bro on the $S$ 12 to 13 of Bayo, always Bayome

## yg on the Coafis of Spain and Portugal.

Channel here alio is fomething difficult, becaule of Rocks in the Entrance; and therefore Pilots come off to you as foon as you appear flanding in tor the River.
N.B. = Ls. S.W. from the Mouth of Rio Roxo, liss a great fimk Rock, which is very dangcrous ; but it is not in the Fair Way from any part of the Coalt.
 dra; between them lies a Rock or imall Illand, Monte Carbitla; there is a Channel withun it of Fa but then you mult kecp from the Shore, for 'tis rocky and foul on the fide of the Main all the way from Rowo to the 'Pu'mathedro. Right thwart the Entrance into this Port, lies an Illand calicd Blydoues; you may lail round it on any fide: on the $N$ where it is flhoaleft, is 7 Fa and on the S . fide $=0 \mathrm{Fa}$. It is a Port of Trade, and fometimes great Ships put in here. The S. fide of the Ifland is the beft Entrance into the River: the 'Town lics within a hetle Bay under the N. Point of the Entrance: in the middle of the Haven lies another Illand, which alfo go to the S. of, and kecp all along by the S. Shore as you tail up; then you run over a Bank in 5 Fa. to the Point on the other fide; and juft under it hes the Town, there you may ride in +fa . good Ground.
S. of the Illand, in the Mouth of Puertal idra, diftance 5 1.s. lie the Illands of Bagome: when you firft make then, they appear as threc llands, and look black and gray: The Sca runs thro' between them bur in one place. fo thate they are no more than rwo; you will know thicm at Sca by two, high Hills upon the Main, which are Iecen over them; the eaftermoft Hill has 3 Hummocks, and the weftermoft two, with hollows between the Hummocks: and a hetle to the caftward of the caftermoft Hill you will fee a great white Stonc Buildng, being an Abbey. By all thefe Marks the Illands are cafily known; youmay fail within them either way, but at the N.E. end is a fime Rock: Take heed!
Thefe Iflands lie before the Entrance intotign, and the Sound of Basonne: if you would go in by the northward, you muft go between the Iflands and the Main, keeping Mid-channel, till you open the Sound of l'igo, or Cannas, which is very broad, and where you may anclior on both files, that is, on the S. fide before $V$ igo, and on the N. before Cannas, in ${ }_{12}$ to ${ }_{13} \mathrm{Fa}$. If you are bound farther in, as allio into the Sound of Bayonnc, you muft have the Help of the Pilots, who are always ready here, having not much Bufincts. The Somd of Bayoune is more difficule than that of $l$ igo.
N. B. A S.W. and N.E. Moon makes full Sea on all this Coaft, and in the Harbours a Point later. N'. B. The Flood from the Ocean does not flow along Shore here, as on the Coaft of Britazn and France, but hows directly upon the Shore from the "ca; and to the Ebb; run out of the Rivers and Havens itrait on to Scaward.
S. from the Ifles of Bayonne, and the Port of $W^{\prime} y^{\prime \prime}$, diftance

Frontrie Cupe. Icaving this Haven to the N.E. the Coaft lics S.E. on Mores, or Moirros, diftance 6I.s. In this Courle are more Rocks than have been feen together on all the Coaft from Bilbora to the Cirneme. As foon as you are about Cape fint/erre, you lee a high rugged Hillupon the Coalt ; it rums to far $\dot{S}$ that you may tee it alfo from the Sca off of Mores, and 'tis a Mark to know the Coaft by. As to Rocks in the Sca, here are very many, particularly E.S.E. i om the Cape,
mult ncl, very on th 12 to of $B$ alwa Bayo diftance; L.s. lic a great Range all under Water, and S.E. by S. from thofe lic another Range above Water. W. by S. alfo from Mores there lic a great many Rocks as well under Water as above ; and right in the midft of the Entrance lies a great funk Rock S.E. off from Mount Latro.
N. R. Mount Latle is a high Hill upon the N.E. Point of the Sound of Mores ; and is lecn a great way off to Sca.
There is alfo a Bank of Sand upon this Coaft, (which is very rare hereabours) it lics S.S.E. from the Cape 3 Ls. into the Sca. Thefe Rocks lying fo thick about the Entrance into Mouros, tis necdful to take a Pilot, if you are bound in.
A. B. When you are in the Haven up as high as the Town, you have is Fa. Water before it.
S. E. from Mouros, diftance = L.s. lics the Rio Rowo; the Entranc: into it is by the Ifland Salure; and on the North Point of the Entrance lies the Town of Villa Noza. The
S.

5 Ls. in the tis a receis Therd Way, the R little which Land,

## Sailing Directions for the Coaft of Portugal and and the River Guadiana cxclufiee, wher


$I A N A$, the firf Port of the Dominions of Por${ }^{t}$ tugal, lics duc S. from Cinsina, diftance 7 Ls. The Town ftands clole to the Water fide : From the N. Point of the Eutrance lies offa Ledge of Rocks, 2 Ls. from Shore; and before the Mouth of the River on the S. fide, are 2 Light-houles: it is a barrd Port, and the Entrance narrow and dangcrous; and if you are bound in, a Pilot muft help you.

You may anchor without the Bar in 12 Fa. a good Road and clear Ground; and Ships gencrally do fo, till the Pilots cone off to them.

From Viana the Courfe is S. by E. to Vrilla de Conda, dift. 6 L.s. 'tis a broad Entrance; and tho there are many Rocks before it, there is room cnough on cither fide of them, and not lefs than 5 to 6 Fa . Water. The Paffage to the northward is the narroweft, but is thought the beft: when you are in,
the $S$

## i. the Coatt

 this Courle II the Coaft about Cape it ; it runs to of Mores, locks in the n the Cape, and S.E. by '. by S. alfin under Water lies a greatN.E. Point
tway off $t \rho$

7, (which is c 3 Ls. into ntrance into mid in.
sthe Town,

Roxo: the the North Noz:, The
mult go betw cen the Iflands and the Main, kecping Midechannel, till you open the Sound of Vigo, or Cimnas, which is very broad, and where youmay anchor ca both fides, that is, on the S. fide before $V$ 'so, and on the $N$. before Ciannas.s, in ${ }_{12}$ to ${ }_{13} \mathrm{Fa}$ If you are bound farther in, as allo into the Sound of Bayonne, you muft have the Help of the Pilots, who are always ready here, having not mucla Buffuels. The Sound of Bayoune is more difficult than that of 1 "igo.
A. B. A S.W. and N.E. Moon makes full Sca on all this, Coaft, and in the Harbours a Point later. N'. B. 'The Flond from the Ocean does not tlow along Shore here, as ou the Coalt of Britan and France, but flows directly upon the Shore from the ea, and fo the Ebb; run out of the Rivers and Havens flrait on to Scaward.
S. from the Ifles of Bavonne, and the Port of $\mathrm{V}_{\mathrm{g}} \mathrm{g}^{\circ}$, diftance 5 Ls. lies the Haven of Camina, the laft Port upon this Coant in the Kingdom of Gaticia, and the Dommions of Spain: tis a broad Sound, and has Room and Water cnough to receive the biggeft Ships: The Entrance lics in. N.E. by E: There is a Rock lics above Water in the midalce of the Hair Way, a little towards the S. of the Entrance; and to the N. of the Rock is the Road, and the deepelt Water. There is a little Ifland in the Sound, on the N . fide, and a Fower upon it. which is the Mark for going in, keeping the 'lower on the $\mathbf{N}$. Land, and fo sun in right with it.

## Portugal xclufive, where the Coaft of Spain begins again.

ons of Por ${ }^{5}{ }_{7}$ Ls. The From the N . of Rocks, 2 of the River ort, and the bound in, a
od Road and Pilots come

Conda, difit. many Rocks f them, and c northward you are in,
the S . fide of the Haven is the beft lying, the N. fide being foul, and full of funk Rocks.

To the S. of Villa de Conda are the great Rocks called the Lefons, jutt againtt a little Haven of a Fa decp, called Mettelyne: Allo S.W. from the S. Poont of the Lefons, is a great funk Rock very dangerous: You may run between the Lefons and the main m 8 Fa a fair Chamel.
S. of the Lefons diftance I L . is the opening of the Ritce Duoro, vulgarly called Port-o.Port, or Oporto. On the N . fide of the River, 4 Ls. within the Bar, is the City of $O_{1 / 3}$, whither the Ships go up, making falt to grear Rungs in the Town-Walls. But as this allo is a barr'd l'ore, and the E:ntrance very difficult, fo no Ships go in or out here withour a Pilor.
From the Mouth or Bar of Oporto the Conft gocs away $S$ to Aviero, diftance toLs, all the way a clean Strand, a bate boht

Shore.

## Directions for Sailing on the Coafts

Shore, no Rocks or Shoals, or other Dangers; but you tail along, shore in 7 to sifa. Whena blach Hummock called Carmot. bears E.S.E. from you, then you are thwart the Entrance of Rewer This is allo a barrd Port, and you mult take a PiJut to !om.

The Conit of Portugal is calicr to be known by feveral Remarkables, fuch as the Halls of St. Rego on this N Part, and Cupe Rocg, or Rack, commonly call'd the Rock of Lesion, on the $S$. Cape de itonetso allo is a very high Point, $S$ W. of
 A Leag. $S$ of thas Caps lies oldifage, a Town on the River de Mowtre, or Caje de Moitecon, a fimall bue wide Haven, of no imporance. From the Cape runs off a foul Ledge of Rocks itat the eca.

Thus is areod Road under the Cape on the S. fide; you have there - to $: 1$. and anc fecure from N. and N.N.W. Winds: If it hlows trom the s. you may thift, and anchor to the S. of the Rwer under the N. fide of the fouthward Point. From the S. Pout rans ofl a Rifl of Sand ; take care to go to the northward of it. for you cmanot rem thro' on the S. fide. This Haven is of the lets import mee, becantio the Sands are oten fhifting by the volen trethes which come down there.

From Cape de Mritheso the Courle is S.W. by W. diftance
 D.ape, he the Rocks calld the liutings. From Cape de Moustion to the limrlines the diflume is $1+$ I.s. S W. Behind the liminn from the N. Pomr, lies a great Rock nearthe Land; and to the fouthuad of the Rock goes ina Bay, in which is the 'Town of Ales,ic': fmall Barks rum in behud the great Rock for thetere in balW ather; but behind the Burlings is a good Road m 10 to if Fa. clear and good Ground.
S. by the and S.S E. from the Brarlines, diftance + Ls. is the Cape Rong, or the Rock of Lesbon. From Cape Fifiron, the Courfe hesduc Nand S diflamee F Les.
S.s.W. halt W. from Cape Ron, is a meat Rock moder Water; onevery fide of it is 17 to scas. Water: but juft upon the Rock karce 7 foot. Cape Rocy is a grat Point rannind out into the Sca, is excecding high, and to be fecn far ofl.

There is alfo to be feen the fiarp Hummock of the Abbey of Sumat, vory high Land alm, but not lake the Rocq. E. from the Pont of the Koerg, ditance, L. lies the Road of Cafcais, beng the nothera Point on Opening to the Entrance of the
 is very sood anchormy tor N.W. or N.E. Winds, in 12 or 13 famote or lefis

Ball of Ciatuis is the Point of St. Yialian, or St. Cillian, upon wheh is a hegh Fort guarding the fintrance into the Port of Lisken; thas Jome thoots har out into the River, to that the Nonthern Chanel goes in under the Mouth of the Camon. Here the Shus take Pilots to carry them up to Lisbou, which is about 5 I .s. from Cirfiais.

From Ciber Rosy to Cale Spubel, or Cape de fïtcher, is ic I s. the Courte S.E. by S. There is a high Tower upon the shore, and the land ut telf is wey high : the Cattle of Sez-
of the H Caftle on right aga It is P feveral them.

From wardCa
between S.E. dift: lics in to The Cod River, of no ul the Shor Offin: h The Cupe it Cupe wi tain Rul the Lanc fiate you or no. pol ; anc the Cap

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N . E .
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Ther der Cap Water, ther, tu in $1+\mathrm{an}$

Herc Alsaru mott Li a little res, anc Courfe a timall and wh W.N.V $1=\mathrm{Fa}$

Villa ven tha before t Fron: there is to guid they mu of Lan findy 1

## on the Coafts of Portugal end Spain.

rou tail aalled CarEntrance take a Pi.
everal RePart, and f Lesbon, t, S W. of pe Rogite. c River de Haven, of of Rocks
y you have Winds: If the S of rom the $S$. northward Haven is fhifting by
diftance )ff of this c de MollBehind the Land; and ich is the reat Rock ; is a good

+ Ls. is the firou, the mader Wajuft upon 'oint runbe teen far
the Abbey q. L. from of Cilfictis, acc of the bon : Here 112 or 13

St. Cillian, to the Port ver, to that he Cannon. sooll, which

Fitcher, is er upon the ll of Siz-
of the Haven lics a great Bank of Sand; when the white Caftle on the Water fide bears N.N.E. from you, then you are right againtt the Haven's Mouth.

It is Pilots Work to go over or about this Bank, andinto the feveralChannels of this Haven; therefore Irefer that Pate to them.

From St. Wbes point to Cat. St. ITac\%, or the Sunthe ward Cape, is S E. datuce ayl.s. no known Havens beny betwecn: And from Si. Sio's Bar to the Sumbuard Cape, is S.E. diftance 2y Ls. but the Cout vaties by reafon the bid Bar lies in to far to the N.E. to that you ge S. by W. to the cipe The Coalt betwoen the Capes is a clear btand, nether Town, River, bay or anchomey liaes, except the sainas, which is of no ule, there being no deptin of Water. Towads the Cape the Shore is foul and rocky, bue Ships gencrally kecp a good Offing here, that they may weather the Cope.

The great Musi to danuguh thes Coun by, befues the
 Cape within Latas: As for knowing the Cape, there is a certain Rule thas: Jo the nomburd of dies ahoh Clif withon the Land, fomewhat whith; when you he that Chit you are fate you are patid the Pout, whether youbiw the Cape it telt or no. Allu on the Cape flands an odd rmad Cloifter or Chapel; and clote by the loint a high Rock; by ail which Marks the Cape is to be known.
N. $B$. S.S.W. from Cape St. Timent, difance 16 Ls. off to Sca, lics a daugerous fimk Rock; "tis to near the Surfice, that fometimes on a very low Ebbit is to be teen above Water: There is deep Water all about it jo to j5, and to Fs.

There is good anchoring a litte to the cuftwarl, atmon $u$ : der Cape St. liment, in a mall haly buy, where is 2 Water, and fecure from N. and NW. Wimls: And altive he ther, under alecond lome, is wood radug manother latiobey, in $1+$ and is Fa. tecunctromb. Wands.

Here the Shore trends awy cathard, being the S Coalt of Alsarue; and trom the Joutiow , dCipi, which is the wetter.
 a little toutherly, ditumee zo l.s. Betweca he Leiges, or Liz. res, and $I$ ollai Nera: Legoshicimore northaty in the bay: the Courfe thercfore from the Cape is E. by N. dintance of $\operatorname{la}$; 'tis a timall Tide-Hascn, but they have a good Road in the Bay, and whole flects bometimes ride for thater here from $N W$. W.N.W. and N. Winds, when it over blows; they have 10 to $1=$ Fa. in the Road clean Gromed and haud Sand.

Filla Noza lies E. of Lasos diftance ${ }^{4}$ Ls. otis a beter H:ven than Lagor, and youhave to ; Fa. within the Harbour before the Town; but you muit not go in without a bisor.

From the Mouth of this Hacn io fav is cite E. 121.5 ; there is a Light-houle, or Firaca ded tro :o, upon the Serand, to guide Ships to the Haven's Mouth ; but if the wouldwin, they muth have help, the latots come pretentiy of The brone
 fandy Point rmaning out into the Sea, fo low, that you canot ning out into the Sca, is excecding high, and to be feen far oll.

There is alfo to be feen the fharp Hummock of the Abbey of Simita, very high Land allis, but not like the Rocg. E. from the P'oint of the Rocy, diftauce : L. lies the Road of Cafcais, being the northern Point or Opening to the Entrance of the great River Tagze, or Tajo, calld the Rizer of Lisbon: Here is very good auchoring for N.W. or N.E. Winds, in 12 or 13 Fa. mote or lets.

Eatt of Caficiss is the Point of St. Yulian, or St. Gilian, upon whelh is a high Fort guarding the Entrance into the Port of Lisbon ; this Point thoots far out into the River, fo that the Nouthern Channel goes in under the Mouth of the Cannon. Here the Ships take Pilots ta carry them up to Lisשoul, which is about 5 Ls from Cie/cais.

From Cape Rocy to Cafe Spichol, or Cape de Fitcher, is $1 \circ$ Ls. the Courte S.E. by S. There is a high Tower upon the Shore, and the Land it telf is very high ; the Caftle of Sezdiztere is allo a Mark for this Point, clpecially for the Road under it, where is rery good anchoring in 15 to 16 Fa. Bctween the Mouth of tiec Iagus and this Point is the Opening of a little River, call'd Rio de la' Drapofita; it makes a Imall Haven at the Entrance into the Sea, but 'tis barr'd up with Sand, fo as no Vcifel of any burden cango in.

This Cape Spiche! is better known to the Sailors by the Name of Setural Point, or Sl. Ubes Point; the Haven is noted for the vaft number of Ships which lade Salt there ; it lics from the Point due E. diftance 10 Ls. before the Mouth

Here Alyarve moft Lia a little ves, and Courfe a finall and wh W.N. ${ }_{12} \mathrm{Fa}$. Ville ven tha before t From there is to guid they mu of Lan fandy P fic it al upon th N.E finall H flift, it thercfor

## Scillizg Dirctions for the Coaft of Spain, from Guadiana, to Cape Dragon on th


$M \cap N T E$, or Miamonte, makes amends to the whole Commry for the Defects of their Havens; it is fituate on the E. Bank of a Branch of the great River Gutadiana. Which parts Spant trom Portugal, and is the firl Port in Spain: 'Tis a moble fine Haven, and a deep Bar, dattance from Tavira 5 I.s. E.N.E. 'Tis without Comparifon the heft Haven on thes Coaft: The Entrance has ; Fa. at half Hood, and goes in N.W. There are fome Shoals before the Haven, for which Realon Pilots are neceffary.

Lept lics from dinoutce 7 Ls. E by N. the more known Name of it is St. Muc!atel's Hacern; 'tis a barr'd Port alfo, and the Bar to otecn fhifts, and is fo uncertain, that you mult by all means take a Pilot.

From hence the Coalt pufhes ont a little, and gocs away E. by S. $10 \%$ 'alor, dillance 7 Ls . Here you hail into the great Condeot, an inland Water, well known in thic Country; but the Entrance is haticult, and mult be referrid to lilotage. The

Land red San the Sall

Fron Mouth ver of The res till the

Berw above; a Pilot.

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The Land o
til tpon int rull$=$ feen far
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E. from

Cafcais, ce of the m : Here 12 or 13
t. Ciliant, , the Port cr, fo that c Cannon. 'on, which

Fitcher, is $r$ upon the c of Sizthe Road 6 Fa . Bcc Opening kes a dmaill 1 up with
ors by the : Haven is r thace ; is the Mouth

TII 14 minis la, fecme diom Vo. Winds.
Here the Shore trends away cathward, being the S. Coalt of Alyarve; and from the Soutbwad Cape, which is the wefter. mott Land of Algarec', to Faro, or Cape Santa Maria, is E. a little foutherly, diftunce zo Ls. Between lic Ligos, or Laves, and V'lla Nora: Lagos liesmore northerly in the Bay; the Courle therefore from the Cape is E. by N. diftance 6 L.s; 'ris a fimall Tide-Haven, but they have a good Road in the Bay, and whole Flects fometimes ride for thelter here from N.W. W.N.W. and N. Winds, when it over blows; they have 10 to 12 Fa. in the Road clean Ground and hard Sand.

Villa Nova lies E. of Lasos diftance 4 Ls. 'ris a betect Haven than Lagos, and you have 4 to 5 Fa. within the Harbour before the Town; but you muft not go in without a Pilot.

From the Mouth of this Haven to Faro is duc E. 12 Ls; there is a Light-houfe, or Ferva del Fitogo, upon the Strand, to guide Ships to the Haven's Mouth ; but if they would go in, they mut have help, the Pilots come prefently off: The Point of Land at the Entrance is call'd Cape Santa Maria, 'tis a low fandy Point ruming out into the Sca, fo low, that you cannot fee it above 4 to 5 Ls. off to feaward. Under the Hummock upon this Point lies the Town of Faro.
N.E by E. from Faro, diftance 6 Ls. lics Tavira; 'tis a finall Haven, and the Entrance fo fhoaly and the Sands fo often thitt, that they are no way to be trulted to ; and the Pore is therefore much lefs us'd than it would otherwife be.
N. B. This is the laft Port in the Dominions of Portugal, Santa Maria being nor :eckon'd a Port, nor the Haven of any ulc.

Spain, from Ajamonte at the Moutb of the River e Dragon on the Coaft of Roufillon.
o the whole it is fituate River Giluaand is the deep Bar, Compariton Fa. at halt before the
re known Port alfo, you mult s away E. the great intry ; but age. The

Land from hence W. is call'd the Rodugh, becaule of the red Sand-hills of which it is full. Here goes in the Haven of the Saltecs, and the River which goes N.W. to Odyr:

From the Mouth of the Giradzala at St. Mieliacls, to the Mouth of the Gitadalquieer, which we vulgarly call the River of Sezille, or of St. Lucar, is ${ }_{1} 7$ Ls. the Courfe S.F.bys. The red Sand lulls mentiond above, reach all aleng this Couft, till the Town of St. L.ficer is in fight.

Between thefe two is the Haven of the Saltecs, mention'd above; a difficule Place, and thote who go in there, muft take a Pilor.

Thisgreat River of Ciadaburien, comes down from See:\%, and is navigable fo far for good Shps. The Galloons from Now Spatin ufed tommely to molod there. This Water requires a Pilor, nor do any rich Ships go up without one.

The S. Point of the Entrance into this River is calld the Land of Sibiona: From hance to Catiz thedithance is S I.s.S.E.
in a ftrait Line crofs the Day, not about by the Shore, in which are divers other Pots, Havens and Towns, as Rotta, 'Port St. Mays, and others.

To cnter the Bay of Cadiz. you mult go right with the Porgues, within two Cables length of them; they lie to the N . of St. Sebedfian: Run thus in 6 to 7 Fa. till you come before the Port of Cadiz, and anchor in 8 to 15 Fa as you pleale.
In this Courfe you mult be careful of the Sand called the Diamond, upon which is a funk Rock, and very dangerous; ir lics a Milcs N . of the Porques: There is but ${ }_{j}$ Fa, upon it at half Flood. The Marks to avoid it are,
r. Bring St. Katharing's Chapel, which fands upon the N. Iand, to be F. from you, a little northerly, then you are thwart it ; the 'Puntal bcaring alfo S.E. by S.
2. Other Matks are. St. Aler's Church orer the End of C.aits, or a Cloitter which flands at the End of Cadiz, and a little Houfe on the H:ll over the Chapel, which flands to the wettward of Pert So. Mlayy; then you are thwart the -Z)umpord.
3. Set the two Hills, which are fouthward of the way to Sheres, but a lietic atunder, and yet kecp them from coming togecher: then you go clear of the Rock.
To lic before Cadiz in the Road, you fhould anchor fo as to have the Patatals bear S. from or near it, according as one lies near the City. To the S. of Cadiz lies a funk Rock; come no nearer to it than 7 Fa . The W. fide of the Ifland is all foul, no anchoring ucar it: The Bay lies from Rotta to Cadre in breadth; Miles, and much the tame between it and St. Mays: The depth between the Tiamond and the N . Shore of the Bay is from 5 to 8 Fa If you would go ineo the Harbour behind the Pmats, or into the Creck, you fhould t.ake a Pilot.
S.W. from the Point of the Town of Cadiz, and a little lefs from Barbace Point, lics the Illand St. Pedro: In the way bericen lics a Rock under Water; bur in going S. for the Straits Mowh, ycu go without it all.

From the Bay of Cadiz to the Strcights, you go away S.E. to Cape Trafutare, calld by our Engli/h Sailors Trazed de Ciar ; the Courfic from Point Scbafian W. of the City of Cadiz, is SS.E the Diftance 9 Ls.

To go about into the Chamucl of the Streights Mouth, you munt gre the Cape a good Birth, to avoid the Spanilh, Coaft wheh is foul. W. by S. from Tariffa there is a thoal Bank $=$ Ls. to $=$ ' into the Sca, where is 8 to 10 Foot Water; you may know it by the Breach of the Sca upon it when it blows hard.

Being thus without the Cape, with a S.S.E. and S.E. by S. Courfe, you will make the Barbary Shore, juft about thwart of Tatyper, lying in a great Sand-Bay.
From Tangie, to Apes-bull the Courle is E.N.E. but to C : thro' the streights dioutb, whether tor the S. or N. Shore, the right Courfe is E. by N. mid.Channel, or rather towards

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## for Sailing on the Coafts of Spain.

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E. but to C: or N. Shore. ather towards
becaufe the eafterly Winds generally come with fuch Squarals and Gults. from the high Hillis of Gibraltar behind the Town, that you will be ill able to get out of the Bay on that fide.

Being bound from the caftward out of the Streights, and kecping on the Spanifl, Coaft, obferve to bring the Hill of Gibraltar againft the high Land of Barbary: For fome, miftaking the flat low Land to the N. of St. Ame's.bill for the Opening of the Stecights, and rumning into the Bay upon that Suppofition, have loft their Ships by loffing their way.
N.N.E. from Gibral:ar, diflance 8 I.s. lies Liftepona: There are feveral Light-Houfes or Fire-Towers on the Coaft between, to give notice of Encmics in the Bay: There is allo good anchoring on all the Coalt betwecn, if not too near; and if the Winds do not blow too hard from the E. or S.E. At the firt Tower trom Gibraltar you may anchor in 25 Fa. Gibraltar bearing S.S.W. Herc you have the beft Road for a Levant, to run out with thro' the Streeghts. At the fecond Tower your may ride in 20 to 22 Fa. and there you may water on flore with great Convenience ; the Ground being low before Eftepoma you may anchor in tit Fa. but there is no Haven, Creck, or River; nether is there at Mirabelle, which is the next Town on the Coaft, diftance 6 L.s. N.N.E. from (ibraltar. There are five Watci-Towers on the Coalt between Effcpona and this Place.

On the Shore going to Mirabelle, are two great Packhoules, as the $\mathcal{T}$ utc) call them, or Ware-houtics, and a finare Watch Tower on the E. fide of them. If the Gate of the City appears between the Ware-houfes and the Tower, you may anchor in 9 to ro Fa. but not right before the Town. there the Ground is not good: You may water alfo to the caftward of the City with very good Convenience.
E.N.E. from this City, diftance $8 \frac{1}{\frac{1}{L}}$ Ls. lies Cape Malaga, being the wefternolt Point of the Bay of Malaga. Between them lics fongerold, a fimall Place without any Road near it: To this Place the Coaft is flill full of Watch-Towers, built, as is tuppos'd, to prevent the Rovers of Barbary from making any Defecne in the night: They all ferve for Sea-Marks allo.

From Cape Malaga, or as fome call it Cafe Moll, to the City of Malaga, the Courfe is N.E. diftance 3 I.s. This Coaft all the way is a fair Strand, with good riding in 10 to 12 Fa . The City is known by two ftrong Forts, one on the E. fide, and two Walls running down from it, to ance os fu: hy the Sca-fide more foutherly.
To anchor before Mlalaga, you bring the Mole to bear N. by E. and there you ride in to to $1+$ Fa. very clean Ground; and the fame clean Ground extends E. or E by N. to Vile Malaga, diftance $7_{7}$ Ls. This City flands a L. from the Sca ; and on the Shore are feveral large Warc-houles, which look like a Fortification, and where the Ships load and unload. W. from thole Ware-houfes, the City bearing E. from them, you may anchor in 8 to $1_{2}$ Fil. good Ground; by anchoring thus, you avoid a Bank which runs out into the Sca a little W. from the Watch-Tower: But run along Shore, and come no

From dre bay of Cadi※ to the Straghtr.r, you go away S.E. to Cape Trafalgar, calld by our Euglifl, Sailors Tracel de (iair ; the Courte from Pont Scbaftian W. of the City of Cadiz, is S.S.E the Diftance 9 L.s.

To go about into the Channcl of the Streiglits Mouth, you muft give the Cape a good Birth, to avoid the Spanifl, Coalt Which is foul. W. by S. from Tariffa there is a thoai Bank $=1 \mathrm{~s}$. to $=$ : into the Sca, where is 8 to 10 Foot Water; you may know it by the Breach of the Sca upon it when it blows hard.

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If you are to go thro' in the night, keep to the Barbary Coaft, becaule that is clear, whereas the Spanifl Coalt is rocky and foul: If yea will go on the Spanifh fide, you muft go clote by the Shore, and run between the Inand Tariffa, and the foul Grounds which lic off that ! fland, or kecp off chough to as to run without them.

F, of the Inand Tariffalies Cape Cabrita, diftance 5 Ls. beins the weflermoft Point of the great Bay of Gibraliar: A litic weftward of it, over-againit the Hill of Gibraltar, is good riding tor a N.E. Wind in 8 to 12 Fa . thwart of a great Rock, and not far from the Shore.

There is a Fire Tower or Light-houfe upon the Peint; and a little to the wethard of it is a fair Strand: There you may ride fmooth from the weftern Swell of the Sea, which comes in tupon any Storm in the Ocean.

Thwart Cape Trafalyar is a Rock under Watcr, i L. from the Shore; there is but ${ }_{9}$ Foot Water upon it: There is a good Chanacl between it and the Shorc. Allo W. by S. from the fame Iland lies a whole Ledge of Rocks, much about the fame depth moder Water; they ate perceived in foul Weather by the Breach of the Sea upon them: But at the E, end of the Ifland is a good Road lite againt cafterly Winds, and 13 to 20 Fa. clear hard Sand; but youmult not anchor nearer to the Ifland than $1_{3}$ Fa. the S.E. Point being foul. The beft of the Road is the S . Point, bearing W.S.W. from you, and the Sand-hill W.N.W. then you will have 14 Fa. Water good Ground, and a good diftance from the Shore.

Between Cape Cabrita and the Inand Tariffa there is a Bay, and in the Middle of it a Light-houle, againtt which you have good Ground in is Fa. and a good diflance from the Shore; all the way from the Inand to the Cape is a clear Strand, and nothing dangerous bue what is in view.

To lall from the Road of Gibraltar, in order to go out of the Streishts into the Ocean, if you have the Wind Eafterly, bear up before is towards the W. Shore of the Bay, and out along by it, tho it be a Lecelhore, till you gec out of the Bay;
go away S.E. ors Traced de f the City of
$s$ Mouth, you Spanifl, Coalt s a thoai Bank Water ; you When it blows
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To anchor before Malaga, you bring the Mole to bear N . by E. and there you ride in 10 to 14 Fa. very clean Ground; and the lame clean Ground extends E. or E. by N. to Vile $=$ Malaga, diftance 7 Ls. This City flands a L. from the Sca; and on the Shore are feveral large Ware-houfes, which look like a Fortification, and where the Ships load and unload. W. from thole Ware-houfes, the City bearing E. from chem, you may anchor in 8 to 12 Fa. good Ground ; by anchoring thus, you avoid a Bank which runs out into the $\mathrm{Sca}_{\mathrm{c}}$ a little W. from the Watch-Tower: But run along Shore, and come uo ncarer than yo to it Fa. and you avoid the Bank alfo.
All this Coaft continues fair and clean quite to Almanicar, which is the next Pori due E. from V'le $\approx$ Malgga, diftance ${ }_{15}$ Ls. 2 I.s. Thort of it flands Porto de Tores, which is a Point of Land with a Fire-Tower on it: You have 12 Fa. Water at Almanucar, lying to the weftward of a Rock, with a Chapel on it.
E. from Alamnucar, diftance 3 Ls. is Solebrema, a fmall Town having a little Chapel adjoining: The Chapel ftands upon a Mountan, with a fimall Inand againft it ; by both which it is known from the Sea. To the $W$. of the Ifland is good riding under the E. Point of Almanncar liay, where you are fafe from E.N.E. Winds ; all round the Ifland is good anchoring and you may run between it and the Main: Here jou have ${ }^{1} 4$ to 16 Fa, good clear Ground.

Two Ls E. from Sallebrentua, and ftanding half a Mile from the Sca, is Modril, a Town with two Churches, which makes fome call it two Towns; there is allo a four fquare Tower by the Sca-fide: This is no fafe place to anchor in, efpecially if the Winds blow from the S. or S.E.

From hence to Adra you have all the way a low plain Coaft, lying E. and E.N.E. diftance i2 Ls. and the like quite to the Bay of Almeria, and Cape du Gat.
N.B. As here are no Havens upon all this Run from Giibraltar Bay to Almeria, but that all Ships are bound to ride in open Roads, fometimes flacterd and fometimes not, the Commanders thould be careful to keep all things ready in cafe of Storms, either to carry out Anchors, or to flip, and run out to Sea.
N.B. Obferve alfo, that the Noife of the Sca on this Coant oftentimes gives notice of a Storm, at lealt a Day and half before; bue when it comes, you lave nothing to truff to but good Ground-Tackle : Yet if the Wind be not directly upon the Shore, you cannot be in much danger.

## Directions for Sailing on the Coafts o

From Cape de Gat to Almazaron is 17 Ls. the Courfe N.E. by $\mathbf{N}$. it lics in a great Bay, in which there is a Caftle, having a Rock to the eaftward ftanding high out of the Water, with a Watch-Towcr upon it : And from this Almazaron to Carta$S^{c} m_{a}$ is 6 Ls. E.N.E.

Cartagena is an open Bay and Harbour, with a Mole before the Town, and a ftrong Caftle $:$ It is the firt Place after Cadiz, where any mention need be made of a Pilot; but here It is abfolutely neceffary.

The Harbour of Cartagena is known at a diftance by the Ifland Combrera, which lics juft before the Mouth of it, dif: tance 2 Miles S.S.E. from the W. Point of the Harbour : You may run in between this Ifland and the Main, but you muft be fiure to keep the mid-way between them, for the Shore is foul on cither Hand. On the N.E. fide of the Ifand is a large Bay call'd the Bay of Combrera, where you may anchor in any part of it, and in what depth you think fit: But a Wind off Sca brings a high Surge rolling in here.
E.N.E. from the Ifland is a little Place calld Port Genovez, in which you may anchor in cafe of neceffity, and with a fmall Ship: But kecp to the Starboard-fide in going in, for in the mid-Channel lics a funk Rock vcry dangerous.
From Combrera the next Port of Confequence is Cape PaLn., it lics E. by S. from Gchove $\approx$ diftance almont 4 Ls. 'tis a low Point, compar'd to the Coaft, which is generally mountainous. Off at Sca abour two miles N. E. lies a little Inand called Formigus, furrounded with Rocks both above and under Water, and therefore very dangerous. But the Ifland is as a Buoy to the reft, and by that which appears to warn Sailors of the Mifchiefs which are concealed: If you run rhro' within the Inand, take heed to keep to the fide of the Main.

From this Cape the Coaft falls off into a great Bay, and the I.and trends away firt duc N. then N. by E. towards Alicant. In this Courfe ${ }_{3}$ Ls. N. from the Cape, lics anotherfmall Ifland callicd Giro/s, furrounded allio with Rocks and foul Ground: there is likewife a Channel between it and the Main, but 'tis narrow and dangerous, and no Ships care to run thro', neither fhould but upon extreme Necefity. You may anchor any where upon the Coaft in this Bay, in 8 to so Fa. provided you are firlt paft that Ifland.

From Grof.s you go away N.N.E. to Cape St. Paul, diftance ${ }_{12}$ L. Ls. and to the Illand St. Paul, or La Grofs, 5 Ls. fo from Palos it is ${ }_{17}$ Ls. diftance, the Courle N. by E. cafterly: but the Ifland Grofs being a little more to the N . makes the Courfe vary near a Point: fhort of Cape St. Paul, and diftance 3 Ls. S.W. by W. is a Cafte call'd Giuardamoor, and a Tower call'd La Matta, in a decp Bay where they load Salt. The Ships gencrally ride off of another Caftle call'd Lugar Nova, while they take in their I.oading, this Caftle being under the Lee of the Cape, and in fome places better Riding.

If you go to La Matta, keep to the louthward under the Shore in ${ }_{4}$ Fa. till you come to the Point over againft Ifle St. P'aul: when you are paft the Poine, you will fee the Caftle of Lugar. Nozia under the Point. Bring the Caftle to bear N.E. froin you, and you are in the beft of the Road: Cone to an

From the C making a great muft avoid the Rocks which run over them, any Emergence better to avoic Paffage mentior

From the 10 kceping as near to 5 Fa . If you the Mole, fo th Gates ; there y you may kecp f Mole bcaring fro and S.W. Winds
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The E. Point or La Hovert ther high Hill o Ifland of the fam the Mount is n and Fire-Towe place; you ma little to the W. from whence have a good R
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E. of Alticr, little Town of Road in 12 to

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There are not far from o ward lics a lite that Ifland and

## on the Coafts of Spain.

From the Cape to Alicant is ro Miles, the Courfe North, making a great Bay. Alfo when you come without all, you mult avoid the IMand by all means, becaule of a Ridge of Rocks which lie out S.W. by S. into the Sca; but. you may run over them, if you kecp a little off, in 7 Fa . You may on any Emergence run between the Ifland and the Main; but 'ris better to avoid it, becaufe of the Rock under Water in the Paffage mention'd above.

From the llland you go away N. as before to Alicant, kecping as near the Shore as you will, only not in Iefs than 4 to 5 Fa. If you would anchor before Alicant, lie right before the Mole, fo that you may fee into the Town thro' the Head Gates; there you will have the beft Ground, and 5 to 7 Fa or you may keep farther off in 12 to 13 Fa. the E. Point of the Molc bearing from you E.N.E. This Road is fccure from N.E. and S.W. Winds.

The City of Alicant is fituated on the N. Shore of the Bay half a Point W. taking it from the Ifland of St. Pawl. The Caftle ftands upon a very high Mountain, and its white Walls were a Mark to know the City by: it was blown up in the late Wars by the Fretich; bue the Mountain is the like Mark, tho the Caftle be in its Ruins: The Road is juft before the Mole.

A Wind off Sca makes this Road fometimes very uncafy, the Sca going very high : but the Ground is good, and the heighe of the Mountain checks the Wind; or, as the Sailors fay, The Land refufes the $W$ ind.

The E. Point of the Bay of Alicant is called Cape Overt, or La Hoverte, or Alcadre. N.E. from this Cape is another high Hill on a Point called Monnt Benidorme, with an Ifland of the fame Name a Miles fhort of it; from the Cape to the Mount is near ${ }_{17}$ Miles. There are feveral little Towns and Fire-Towers on the Coaft between, but no confiderable place; you may run between the Illand and the Mount. A little to the W. of the Mount lies Villa \%ozoja, a little Town, from whence fome Charts call the lland Ifle fovofa: you have a good Road there in 7 to 10 Fa. fecure from a Levaint.
N.E. from this Point you may anchor in 7 to 10 Fa. in a large fandy Bay, before the Town of Altier, from which'tis called Altier Ray: 'tis an excellent place for Watering, where a whole Fleet may ride in Safety, and water with the greateft Expedition. N. E. The Englif/ Navy water'd here in two days in the late War.
E. of Alticr, and juft without the Extert of the Bay, is the little Town of Cialp in another little Bay, where is a good Road in ${ }_{12}$ to ${ }_{15} \mathrm{Fa}$ and where feveral Ships load Fruit.

From the Ifle of Bendoan N.E. diftance 5 Ls. is a high fteep Point call'd Cape St. Martins : you fee this Cape 8 or 9 Ls. of at Sea; but the Point is fo high, the Shore running flat out before it, that it endangers Ships running on Shore in the Night: for which reafon fteer more calterly, and come no nearer in the Night, or in dark Weather, than 8 to 10 Fa .

There are ${ }_{3}$ Light-houfes (not Firc- Towers) on this Cape, not far from one another : and beyond the Point to the eaftward lies a litele high Inland, but there is no paffing between that Ifland and the main. Two Ls. from this Cape is Clape St.
there is likewile a Chancl between it and the Main, but 'tis narrow and dangerous, and no Ships care to run thro', neither thould but upon extreme Neceffity. You may anchor any where upon the Coalt in this Bay, in 8 to so Fa. provided you are firft paft that Inland.

From Grofs you go away N.N.E. to Cape St. Paul, diftance 12 I.s. and to the Inland $S_{t}$. 'Paul, or La Grofs, 5 Ls. to from P'alos it is 17 Ls. diftance, the Courle N. by E. cafterly: but the Illand Grofs being a little more to the N. makes the Courfe vary near a Point: fiort of Cape St. Paul, and diftance 3 Ls . S.W. by W. is a Caftle call'd Cittrdamoor, and a Tower call'd La Matta, in a deep Bay where they load Salt. The Ships gencrally ride off of another Caftle call'd Lugar Nova, while they take in their I.oading, this Caftle being under the Lee of the Cape, and in fome places better Riding.

If you go to La Matta, keep to the louthward under the Shore in ${ }_{4} \mathrm{Fa}$. till you come to the Point over againt Ifle St. Y'aul: when you are paft the Point, you will lee the Caftle of Lusar Noza under the Point. Bring the Caftle to bear N.E. from you, and you are in the belt of the Road: Come to an anchor there in + Fa. then the caftermoft Point will bear E. by N. from you, the Caftle Guardamocr S.W. and the Hills to the louthward of the Cafte S.S.W.

This Road is lecurc from N E. and S.W. Winds: La Matta lies to the S of the Caftle Guardamoor.
N. R. 'Tis only a lquare Tower, which they call Fire Towers, we thould call it a Light-houfe: but the Difference is, that thote Fire-Towers are for alarming the Country, and Iight-houles are for directing the Sailors: but thole lerve alfo for both. $N . B$. There is no Town at Lat Matta, nor any good Riding; and therefore it is that the Ships go away to Lusar Nozia. But if you are in hafte, and can be difpatch'd, you may venture, as you tee the Weather fettled or not fettled; you may anchor ins to to Fa. near the Tower. N.B. If you go up to the Round Top, you may lee the Salt lic in Heaps on the land.
All along this Bay, and from Cape Palos to Alicant, the land is mountainous, and fo high, that in the Night you may be deceiv'd by the height of the Land, and think it farther off, and to be in danger of running alliore ; you muft therefore keep a good Look-out. The Shore it felf is very good, a fair fimooth Strand, bold and fafe; and you may lail in 12 to 14 ta. all the way, within Call or hearing of the Land. The diflance from Palos to Alicant is 21 Ls. the Courte N.N.E. that is, 17 l.s. to the Inle of St. Panl, and 4 more to Alicant.

The Inland of $S_{t}$. Paul is call'd in the Charts P Plane Ifand; it lies near 2 Milcs from the Cape; in the middle of the Channel between there is a dangerous Rock under Water: If you go thro' the Paffage, kecp nearer the ( ape than the Mand, and you may avoid it, but then you mult not go too near the Main neither, for the Point is foul too: At the end or Point of the Cape is a Fire-Tower.
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From Point cal at Sca; b before it Night : nearer in There not far $f$ ward lics that Iflan Antonio, of Xobea Fire-Tow

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call Fire the Diffethe Counlors : but Town at fore it is if you are e, as you y anchor go up to Hcaps on
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There are 3 Light-houfes (not Firc- Towers) on this Cape, not far from one another : and beyond the Point to the ealt. ward lies a little high Ifland, but there is no panfing between that Illand and the main. Two Ls. from this Cape is Cape St. Antonio, lying N.W. in a little decp Bay, where is the Town of Xobea, or, as we call it, Sbeva, and fome Light-houles or Fire-Towers: there is a good Road. and 12 to 14 Fa Water.

There is a Light-houfe on the Cape, and Ieveral Windmills near the Town; the Road is before the Town, where the Ships lie clofe to the high Land on which the Mills are; where they ride with two Anchnre to feaward, and a Head faft afhore, the E. and E.S.E. Winds blowing right in.

On the N. fide of the Cape, and under a high Hill, lies the Town of Denia, where is a fmall Haven ; 'tis a difficult Entrance, and this is the fecond place within the Straits where I would advife taking a Pilor; they come off to you as loon as you come about the Cape.

From this Point the next place of note is Grao, the Ses-port for Valentia: the Courle is N.W. diftance 17 Ls. There are the fmall Ports of Gaudin and Cullora between, but no good anchoring at cither of them.

The Town of Grao is fmall ; the River of Vaientia opens into the Sca within a quarter of a Mile of this Town, but there is not Water enougti: co carry a Pinnace up to the City : the Road of Grao is good, and you have 7 to 8 Fa. but no fhelter from any Wind, the Shore being low, and the Country plain and level: there goes a great Sca fometimes in this Road, and Ships are in danger of foundring as they ride.
N. from Grao lics the City of Monoedra, diftance 8 Ls. A little to the N . of it flands a Light-houlic clofe to the Sca-fide; and N.N.E. from thence is Cape Oropefit diftance 9 Ls. To the weftward of the Cape is a very good Road fecure from a $L c$ vant : The Marks to know the Point by, are a round Tower or Caftle on the Point it felf, and a high Hill a little from it on the $W$. fide. There is nothing confiderable upon the Coaft between Grao and this Point.

NF: from the Cape, difance 5 Ls. lies Penifint ; there is a good Road in the Bay clole to the E. cod of the City, with about io Fa. Water; but here, as in otherphaces, if the Winds are off Sca, you are m danges of reuning athore, the Ships theretore ride here with 2 Cables off to Se., and a Head-falt afhore. On the tame Coant, and in the lane Courle, dift a L.s. lies the little City of Bencecharh, tully called by our lime Books Benctalon; licre is no grod Road, and thisetote the Ships chate to lic at Y'mufned.
E. from this City hes / memoro, diftance a finall I here is a Fire-Tower clefe by the Sea; to the cathard of the Tower hics a far Strand tor - Ls. which is colled the Alfrague of Torthit: On the W en of it 15 mother Tower. Here the grent Biser $L$ Laro opens it felf in teveral large Mouthe imto the Sca; but the Curent is for rapid, and the tride rules fo lietie, that it prevents any confiderable Nasbation into the River.

The Bay of Alfogen makes thes Pont be an Illand, the Rever commer min the W. fide; there is sood anchorm; at moft in any part of the Bay, exeepe on the thand fide, where the land is low, and the Watcr thoal : but keep to the Mam, and you have 6 to 8 lia. The Land upen the Nain here is to high, that 'tusteen is l.s. to Sca; the beft of the Road is off of the old Momatery in - Fat.

From Alfougn the next Place is Cope Amporl/, dinance 1, ENE and N $\therefore$ E. , the Coaft betwecn is all flat, and how, full of Salt Ponds, and marthy or handy Grounds. Some of our 'ilot-Pook Wriecrsedl us, the River of alf fragmer runs out into the Sca here, but is not navigable except for Boats;

 all p pim, and aticr a Coutc of above -oo Miles, and receiving all the Revers of C.atabora and Aregron, cmpens it felf
hacre into that no is raston wh up to Tor
The ("i Sca abour 7.1. ir ILS. T Shore be for Shippi Sath is at the Ex and is mo Icrable h.ard S.ilic little aboo higher (ir the Trad clofe to good Ro. sood har tuft of F St timall V lic dry:

Burce tho a gr feveral only for ward fro 15 to 20 nut abo

## Sailing Directions for the Jf



HEIne of luica lics E northerly from Cape St. Alarian, datance $1=$ I.s. There lies a great cragsy Rock calld hiftrin, off of the weftermof Ponit of the thand, and another calld Comiger off of the NW. Point; but about the W. Point, and clear "the Rock, is a very good Road: the Coaft between them firethes out N. by E and S. by W. a l.s. and about the Ifland fion ('omen' to the AE. Point E.N E. and W.S.W. diftance war io I.s with inod anchoring in fercral places betwecn.

At the N.E. P'oint is a large fandy Bay, and vory good Gremend ; but on the E. fide there is a funken Rock, which is the by the Breach of the Sca on it : betwecn the Rock and the He of Thromarso is 16 la good Ground: Togomage is a finall Mand .bebiut (jumhot from the Point, and the Road as above is betwen them. From this E. Point to the S. Point the Land gocs away SW. and S.W. by S. diftunce 9 to 10 Ls. The

there are of the whichn the Sca appcars ward, it comes i
S. of good H ger mul Bar.

SS.E the Iflat Point o the Po, have $s$ may foc

## Sailing on the Corfts of Spain.

there is here into the Sca, in + Chmuncl, and is for rapida Stream,
$y$, with - Winds c Ships 1-faft : Ls. lics t-Books ic Ships
here is a
Tower of Tiorhe oreat into the tio littic, kiver. and, the oran: at. c, where he Man, here is to and is ofl
diflance and low, Some of , runs out or Boats; 1 C'lup:! tics almolt and receitics it kelf
that no Boats can flem the foree of it; and his is the main realon why it is not awigable, otherwide good ships might go up to Tortofit.

The City of Tortofalics up this River, diftance from the Sca about of La, there is good anchoring behud. Ampalia in 6 to Fia. Prom hence the Coatt geses away N.E. to Sian, diftance 7 ls. There are fieral Villoges and lindy Buys upon the Shore bewecn thote two, but none of note, nor any Harbour for Shippus.

Saly is a timall how Point with a lire- Tower or Light-howic at the Extremity of it: it appons as you tail by like an lland, and sh not diforer'd tall you come very near it. There is a toIerahle good Road to the W. of the loint, mis (o) y fa sood hard Sand. On the other fide, E. from the l'oint, diftance a little above a Mile, lies the City of Tirragona, fimated on the higher (iround and well fortsty'd; 'tis no D'ort for Shipping, but the Trade is caryydon at $/$ illa Noer, a noted Port ftanding clote to the Sea: 'tis true, here is no Harbour, but here is a good Road (that is) good anchoring having 7 to g Fa and good hard Sand: but 'is an opon Road tor all Winds execpt futt off Shore. They have no Mole or Heads, but haul their finall Vatiels upon the Beach betore the Town, where they lie dry. The Coalt is low, and the Land within high.

Burcolon, wheh lics E from Villa Noea dillance o I.s. tho a great City, has no River or Haven, only a Miche the feveral Ridins near the dole, as allo the going into it, are only for fmall Vellels and Galleys ; the large Ships ride caltward from the Lanthorn, where there is a very good Rond in is to 20 Fa . Whereas a Galley's length from the Mole there is not above 6 to $;$ loot, and in the MIole about 10 to 12 .

## ions for the Jfland of Ivica.

Cape $S t$. at cragsy of Pomt er off of and clcar renn them the Ifland I. diftance twcen.
cry good which is ck and the is a fimall as above is the Land Ls. The nWhich is
there are alfo two fmall Iflands, or rather Rocks, on the F. fute of the Bay. Near thofe Iflands there is a greas timk Rock. which mult be avoided with great Care: In flomy Weather the Sca breaks on it with great Volence, and the Rock it telf appears in rough Weather : There is a little Crook to the weftward, in which there is a great depth of Watcr, but no River comes in there.
S. of the Bay, diftance 3 Ls. is the City of Ivica: there is a good Haven, but the Entrance is foul and difficult, and a Seranger muth have a P'lot if he is bound in, or elle ride without the Bar.

SS.E. of the fouthermof Point of Ivica, diflance $2:$ Ls. is the Illand of Lormentera: you may fail between it and the Point on the Main, but you mull avoid a Shoal which lics from the Point. Kecp in the middle of the Channel, there you have 5 Fa. Water clear Ground, and fir clear Water that jou may fee the Botom. There is a high Tower on the he of war 1 Ls with pood anchoring in foceral places between.

At the N.E. Point is a harge fandy Bay, and very good Ground; bat on the E. fide there is a funken Rock, which is Huby the Breach of the Sca on it : between the Rock and the lle of Tomone is 16 Fa good Ground: Togrogago is a tmall lhand botit Gunhot from the Point, and the Road as above is bewsen them. From this D. Point to the S. Point the sand gocs .way SW. and S.W. by S. diftance , to 10 Ls. The shore is foul, but there is a bay calld St. Milatio, in which is vory good Riding on the Coaft. betwecn which is clean Sand: there is a Caftle, and two Fire-Towers on the Strand;

## Sailing Direations for the IJ

NonR OM the eaftermoft Point of Ivica to the weftermoft
 the Pome flands the Mland' Dragonera, diftance from the Shore one hitde . Whle: You may fail thro' within it, or ride tate under it in + to 6 F.s. good Ground. S.E. from the Yoint, dithmee 8 les. lic 3 llmads, with a Tower upon the caftement of them; they lie behind a timall Point of the mam nloud, abi beyend them there is a Bay, in which there is a I Nughe. E. from the Light-inoufe is the Haven call'd Porto Pin, Where you ride fate fromany Winds, with one anchor to feswarde, mi two Head-fats athore.

A litele S. of this Haven is the City of Minorca: there is a furk Rock inthe Far Way betisenthem, having 1; Foot Waior uponit; get the Water is fo clear, that you may fee it as youtal by it.

They have buit a new Mol? at the City juft by the Entrance into the Haven; on the W. fute of the Hasen is a white high Tower, and youftum into the Haven berween the Tower and the Morestad. When you are in, go forward right to the

K'

## Sailing Diretions for th

[^6]nom capcor. agrat cragoy Itermolt Pome omeser off of oint, and clear between them bout the llland T.S.W. diftance es betwecn. nd very good lock, which is c Rock and the lag" is a fimall oad as above is 'oint the sand to Ls. The in, in which is which is clean on the Strand;
arece areno ton manmame, or rather Rocke, on the Fi. fude of the Bay. Near thote llands there is a great fank Rock, which mull be aroided with great Care: In llermy Weather the Sca braks on it with grat Violence, and the Rock it felf appars in rough Weather: There is a little Crook to the weltward, in which there is agreat depth of Water, but no River comes in there.
S. of the Bay, diftance 3 L.s. is the City of leica: there is a good Hiven, but the Entrance is foul and diflicult, and a Stranger muth have a Pilot if he is bound in, or elle nde without the Bar.

S S.E. of the fouthermoft Point of Ivica, diftance $2 \frac{1}{2}$ Ls. is the lland of lonmeitt ra: you may hail between it and the !oint on the Man, but you mull avoid a Shoal which lies from the Point. Kecp in the madle of the Chamel, there yout have 5 Fa. Water clear Ground, and fin clear Water that jou may fee the Bottom. There ss a high Tower on the hite of Formentera, and another on the S. Foint of Ieval.

## Tions for the IJland of Majorca.

the weftermoft Ls. Juft upon diftance from , within it, or S.E. from the wer upon the int of the mam ieh thicre is a yskept in the Il'd Por:o Min, anchor to tea-
ci: there is a g ${ }_{1}$; Foot Wamay fice it as
y the Entrance is a white high the Tower and d right to the

Kicy, which lics before the City: 'tis a great Bay rather than a Haven, and you have 10 to a Fa. within the Molc, good Clay Ground.
S.E. from the City, diftance 5 Ls. on a white Point ftands a high Tower, to the S. of which is the Illand Cidnera: this is one of the fouthermolt Points of the lland. From Mapore to Cabrara is 7 to 8 Ls. the Coatt hes S. by W. From this Point to the other S. Point behind Cidhrer, the Courfe is S. by W. diftance $2 \frac{1}{2}$ Ls. 'tis a fair clear Coalt, and there is a good Road in 12 to $1 ; \mathrm{Fa}$. The Channel is cood between Cidorera and the Point, about 1 L. over, and 7 to 15 Fa . Water: allo there is a good Road untie: the Me Cabicta on the W. fide of it.

Four l.s, beyond the S. Point, to the S.W. of it, lies 'Pot St. 'Pedho; 'ris a good Harbour, and no Wind can hurr you in it except a S.E. There is an old run'd Callic on the Larboars. fide of the Entrance.

The S.E. Coaft is clear and good, all the way to the caftermoft Point calld St. V'edro, and fercral little Bays where 'ts lafe Riding.

## Direilions for the Coaft of Minorca.

therly Point of rmolt Cape of ce to the S.W. are = fafe Bays, all orhers to the

From the S.W. to the S.E. Point is 10 Ls. E.S.E. Near this Pome lics the lland call'd the Laire de Blaon: there is a good Channel between the Illand and the Point, upon which is a white round Tower, formerly a fire Tower. S.W. from it is a liuall lunk Rock.

## Dirctions for Sailing on the $C$

On the S.E. end of the Illand, diftance from the Laire de MaOn; Ls. gocs in the tamous Harbour of 'Port Maon, vulgarly Port Alaboon; formerly Spani/h, now Eugli/h: the Entrance into it muft be referr'd to the Pilots, elpecially fince the new Additions and Fortifications added to it by the Euglifh Government, by which the Marks and Buoys allo are alter'd.
The S. Coaft of the Ifland trends away W.N.W. and E.S.E.
in length the Haven you may in the Ent very good Harbour Illand.

## Sailing Directions for the Coaft of France in the M the Frontier of Roufillon, to the Ports of Nic



PE: Dragon is the utmof Boundary of Catalomal W. to the leaward. It lics from Talamos N.E. by N. diftance about 4 Ls. From Cape Dra$g^{\prime \prime n}$ the Coalt falls away again to the N . and lies to Ciafe Cieos N. by E. diftance 10 Ls. There is a wild Road berwect, and neateft Cape (ireos, but no Ships anchor there except in great neceffity, the Sca gomg gencrally very high: But under the Cape on the N. fide is good riding, oppofite to the Village of St. Sebaftian, where you have 15 to 20 Fa. good hard Sand. There is a round Tower of Stone upon the Cape, by whinch it is teen 7 to 8 Ls. from the Shorc.

Fartlier to the northward you have feveral good Roads, as pasticularly one call'd the Road ac l'Anfon, and another call'd Ciner: in both which you are dafe from wefterly and Northweflerly Winds, and have from 6 to 8 or 9 Fa . Water, and very good Ground.

From this Cape 'Dragon begins what they antiently calld the Sia of Narbonne, and the Freub the Cinlph of Narbonne: Toulave upon all the Coalt of it good Anchor-ground and sood Shoalings, but no Harbours or Trading Ports, except the Fouts of Rifes and of Cette. In all this Gulph you have a great d. prot of Water, anda very dangerous Surge of the Sea, quite from (.1f. '/) rasen to the thes of Heceres: Nor is the Motion of the Salhere, like what it is in other Places; but if it blows any thing hard, efpecially from off the Sea, that is, from the S. or a Leiemt from the F. and S.E. the Sca muns fo high, and with a chopping thert Wave, and breaks fo furioutly, that it is very fearful, and good Ships often founder in it: It tecms at a diftance as if there were fome great Rocks which lay tunk under Water, upon which the Sca dathing by the Force of the Wuad thould fly and rage in that mamer by the Reculfion of thote Rocks; but upon the moft exact founding the Coalt, rhere are no Rocks found, nor are there any Over-falls or Deeps and Hollows, but an even fair Bottom. So we leave enquiring into the Cautes, and only mention the Yact, for the Direction of thote that lail this way, to avoid the Danger of it as much as ponfible.

The firlt Port of note caftward from the Gulpb of Narbonne is Marfialles, which lies from Cape' 7 )ragon N.E. diftunce about 40 Is. This l'ort is very fingular for the Marks leading to it : It lics in a round Gulph or Bay about $1 \frac{1}{2}$ L. deep; and the two loints of the Bay lic E, by S. and W. by N. In the

When y N. fide, il you may t Which you Caftles anc fometimes the Gums But as that great Calt

The eal Civectla: E.S.E. fro on the Co Entrance Illand be makes (as

From 1 on E.S.E Thoulo: known, a you como in the paft 'tis fuffici pals as y there are Bays, an under the the W. and lics in old Caltlo or if yo Caftle fir any whe the Har

From or Ercs. feveral O Bafin or neceffari being go counit th other Sh

## ailing on the Coafts of France.

aire de in length io Ls. or more. On the N. fide of the Illand lies $n$, vulthe Enly fince Eurlifh ter'd. d E.S.E. the Haven of '1'orto Farel,, with a Hill on the E. fide of 15; you may tail into the Haven with the Hill: you have is Fa. in the Entrance and 6 to 7 Fa. at the Anchoring-place : ' 'tis a very zood Haven, and convenient for hlipping: but the great Harbour is cnough, there is no necd of any other in this Illand.

## nnce in the Mediterrancan, from Cape Dragon 0 on e Ports of Nice and Villa Franca exclufaie.

Catalo. Calamos pe Drad lics to oad behare exy high : pofite to a. good inc Cape,
oads, as cer call'd 1 North, and ve-
ly call'd "rbonne': sund and xcept the cagreat ate from on of the ows any rom the igh, and , that it It fecms lay funk co of the ulfion of he Co.lft, r-falls or we leave for the Janger of

In the

When you come up to the Harbour, there is a Road on the N. fide, where you may anchor in 7 to 10 Fa . from whence you may take your Opportunity to warp into the Haven, for which you may alfo call a Pilot to affift you. There are feveral Caftes and Forts which command the Entrance, and you ftecr fometimes on one fide, fometimes on the other, clofe under the Guns of the Forts, for which there are Marks to direct: But as that allo is Pilots Work, 1 lcave it to them. N. B. The great Caftle flands to the S. of the City.

The cafterly Poine of the Bay of Marfailles is calld Cape Crufetta: From thence the next Point is Larita, which lies E.S.E. from Crufitta, diftance 7 I.s. Larita is a fmall Town on the Coaft, with a little Creck rather than a River. The Entrance admits no Ships of burden; but there lies a fimall Ifland before the Place, where the Ships ride, and which makes (as it were) a Harbour to the Place.

Prom hence the Coaft lies in the lame Courfe, and you go on E.S.E. to Thoulon, diftance is Is. but from Marfilles to Thonlon directly is only $1_{4}$ Ls. The Harbour of Thoulson is known, and the Entrance fair ; but as there is a large Bay before you come to the Port, ard many Points, Rocks and Shoals in the palfing to the Port, and allo fome Difficultics in going in, 'tis fufficient to refer to the Pilots. The Sonth Cape which you pals as you go from the Coalt, is calld Cape Thoulor ; and there are good Roads within the Cape W. in three feveral little Bays, and one very large, where the biggeft Ships may ride under fhelter from wefterly Winds, whether to the S. or N. of the W. The Enerance into the Buy of Thouloin is beyond thete, and lies in S.W. and N.E. On the Starboardffite is the great old Caftle, call'd Ciafte Thoulout : There you may take a Pilor, or if you are bound into the Harbour, you may paff the Caftle firft, keeping near the fide where it ftands, and anchor any where before the Heads, and then take a Pilot to go into the Harbour.
From the Point calld Cape Thoulon E. lic the Ines of Hieres, or Eres. They are four or five lllands, making a Circle, with feveral Openings between them; and the hollow within forms a Bafin or Pool; it is fo ferrounded with the Iflands, that it munt neceffarily be an excellent Harbour, efpecially the Ground being good, with a moderate depth of Water: On this Account the royal Navy of Firance often rides here, as do all other Shups that are bound in or out of the Harbour of Thoat-
thmy hard, efpecially from off the Sea, that is, from the S. or a leetant from the E. and S.E. the Sea runs to high, and with a chopping thort Wave, and breaks to furioufly, that it is very fearful, and good Ships often founder in it: It feems at a diftance as if there were fome great Rocks which lay tunk under Water, upon which the Sca dashing by the Force of the Wad thould fly and rage in that manuer by the Reculfion of thole Rocks; but upon the moft exact founding the Coaft, there are no Rocks found, nor are there any Over-falls or Deeps and Hollows, but an even fair Bottom. So we leave enquiring into the Culufes, and only mention the Fact, for the Direction of thole that lail this way, to avoid the Danger of it as much as pollible.

The firft Port of note caftward from the Gulph of Narbonue is Marfoilles, which lies from Cape'7)ragon N.E. diftance about 40 Ls. This Port is very fingular for the Marks leading to it : It lies in a round Gulph or Bay about $1 \frac{1}{2}$ L. deep; and the two Points of the Bay lic E.by S. and W. by N. In the Mouth of it, and a little more to the caftern Point, lies a Rock and a rocky Shoal, on which there flands an old Tower, by which you will be fure you are in the Fair W'ay in; you mufl ftecr as you have the Wind, cither on one fide or the other; the Ground is good, only be fure to go to windward of the Rock and Tower: The Chanall is deep cnough, for yon have 20 Fa. at lealt on cither fide.

If yougo in on the E. fide of the Tower, your Courfe to Maryorlics is due $N$. the Port lying in the middle of the Bay. Between the old Tower and the City, and near the middle of the Courfi N.E. lie three Illands; the firlt calld Caga Stracia, the fecond Lila, thate lie clole together; and the third (fartiacrin) Caflle Tito.

Thefe Illands make the Courfe to Marfeilles fafe, and the Roats caly : There are clear Channels between them all, and late gong in: Alfo there is good anchoring under them all, to that you have many Roads to ride in betore you go up to the Harbour. If the Weather prove dirty, under Caga Stracia you ride thelter'd from all Winds but an E.' E. by S. and E. by V. Under Lilu fromall Winds bur E. by S. and E.S.E. And noder (adile' ${ }^{\prime}$ ) $n$ u all but N.W. and S.W. and the Points between; fo that you may thitt your Road, and run from one fite tidug to another, as the Weather hhifts, and be late, let it blow where it will.

The beft Paflige to the City is between the rwo firf Iflands and the third ; you may go in beeween the third and the Main, but the laffage is narrow, and there are fome Dangers in the way, as a tunk Rock, and two or chree above Water; but in the Vatruge all is clear. You may ride allo in the Bortom of the Bay, duc E. and he there under the Shore S.E. from the City; from whence you may run along Shore, Ieaving two litele Ithas wheh ite in the way, on your larboard-fide: In that Chanel, tho martow, you have 5 la. Water.
there are Bays, an under the the W. and lics old Caft or if $y$ Caftle fi any who the Ha,

From or Eres. feveral Bafin or neceffar being $g$ count t other St lon, anc rections they do pole to
from the igh, and , that it It fecms lay funk ce of the culfion of the Coaft, er-falls or we leave $t$, for the Danger of

Narbonne mace about ding to it : ; and the

In the int, lics a Id Tower, y in ; you de or the windward nough, for

Courfe to of the Bay. middle of ga Stracia, third (far-
fc , and the cm all, and r them all, go up to aga Stracia and E. by E.S.E. And Points bcfrom one : lafe, let it
firft Iflands d the Main, gers in the ; but in the om of the n the City; two litrle de: In that
there are good Roads within the Cape w. In threcteveranmete Bays, and one very large, where the biggelt Ships may ride under fhelter from wefterly Winds, whether to the S. or N. of the W. The Entrance into the Bay of Thoulon is beyond thefe, and lics in S.W. and N.E. On the Starboard-fide is the great old Caftle, call'd Cafle Thoulon: There you may take a Pilor, or if you are bound into the Harbour, you may pafs the Caftle firft, keeping near the fide where it ftands, and anchor any where before the Heads, and then take a Pilot to go into the Harbour.

From the Point call'd Cape Thoulon E. lie the Ines of Hieres, or Eres. They are four or five Illands, making a Circle, with feveral Openings between them; and the hollow within forms a Bafin or Pool ; it is fo furrounded with the Iflands, that it muft neceffarily be an excellent Harbour, elpecially the Ground being good, with a moderate depth of Watcr: On this Account the royal Navy of France often rides here, as do all other Ships that are bound in or out of the Harbour of Thoulon, and wait for a Wind: They thercfore merit particular Directions for the carcful Mariner in his going in or out ; for here they do not ulually take Pilors, but lie as is beft for their purpole to go E. or W. The Names of the Iflauds are,

1. Robadin, the moft wefterly.
2. Polcoirola.
3. Porto Crofa.
4. Rovena, the moft eafterly.
5. Eres, or Hieres. Some will have this laft and Robadin to be the fame, and that the word Hieres, or Eres, is properly the Name of the City only; if fo, then they are but four in number.

## Dircctions for Sailing into the Circle of the Ifles of Hieres, and for coming to anchor among them.

The Illand Robadin is join'd to a dry Cliff near the main Land, fo that you cannot fail between the Inand and the Main. On this 1 fland Itands a Caftle, and on the N. fide of Polcoirola ftands a Church, which you may lee as you dail on the S. fide of the Ifland: When you fail thro' the Channel between Robadin and l'olcoirola, you mult be careful to thun a blind Rock or two which lic clofe to the latter. This Haven, and the Road betore Heres, lies N.N.E. and S.S.W. diftance 2 Ls. You may fail near cither fide without danger, and anchor as well under Robudin as Polcoirol., or any where, for it's all good Ground.

Eaft of Polcoirola is likewife a Channel large and wide, where you muft tail in N. then the Read of H/eres bears N.W. northerly 2 I.s. from you: Berwixt 'Purto Ciof. and Bozena is no danger.

It you come from the caftward, and defire to go in betwixt the Illand Bowena and Cafe Lairl, you mult beware * $Q$
of a Rock wheh lics a L. S. and by E. from the Cape; neither mult you come too near the N . Point of the lland of Boerena, for fear of a finall Rock which lies E. from that Point, as big as a Boar, and bur jult above Water.

Beng got within the caltermoft Illand, you may run in W. then you have a black Rock on your Starboard-fide, which liss E. from Cape Bensurfor, berieco which and the Main is good anchoring in our - Fa. The Barks and Tartans finl thro' here frequently.

Due W. of Cape Berentom lics a fimall White Mand, on which ftands a great Cattle calldd Berganfre Calf: and from which the Cape derives its Name: Along from this Caftle is good Ground, till you are palt the hires. You may anchor any where in 4 or 5 Fa . Thete llles all tojecher take up aboit 3 Ls. and reach from withour W. by N. and from within about $W$. it is wide and decp.

From Cape de Larla to the Point on which the Cafte of $B$ rimfon fands, the Courfe is $W$. by $S$ tise in the Paffiec tis very deep, but when paft the Pont, you may anchor th the witward of the Caftle, in 12 or ${ }_{1}$ Fa. It is a : ood Road for a Licunt.
From the Cafte of Berganfon to the Road of Mtive, the Courte is W. northerly = i.s. You may anchor before /homes, cither above or below the City, $111+6$, or 10 Fa Water ; in ${ }_{10}$ Fa. you hic hali a L. from the Shore, it's all good Anchor. ground.

When coming from the caftward, and that you are part the Pome of Bogal fon, then the City Hecers lies aganft a hugh Shourain or Hill: You may allo fee the salt ivmutams ine aganft the Water-fike, with a few old Houlcs at he Foot of then.

Thele Bhes of Heres lic on the E. fide of the (iutpho of Aiabona, of Marcilles: They are the firft Illands that are feen comng over the Gulph from the welt ward.

Cape de Larda is the next Pome of Land upon the Main towards the Coaft of (ieno: : It hes from the E. cnd of the IIl Bozema N.N E. cafterl!, dift, ; Ls. There is a Fire-Tower upon it, the firft we fee ippon this Coaft ; it is in the weflermoft Point of the Gulph of Truazl: Beween the cwo Capes is St. Tor, , a little Place in the Bottom of a Bay of the tame Name Togo in there, kecp the W. Shore a-board; and as you will fee two Rocks in the way, about a long Mile E. of (ate de Larid, leave them on the larboard-fide, and run between them and the Mase. Within them you have ; to 8 Fa.
you $W_{\text {ind }}$ As yc the $S$ (ivion Cirim to thic

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fever: you a of th chors indiffic Groun bring dirict you wrigh Thosul Tw Loht a 1. (..thn" 'Tlic ridng To lectill ven: of the ward you ins all W not you,
Fro FN. finc cafter ward very tmall and without is to 20 .

> Sailiay Directions for the Coafts of Italy, from i) of the King of Sardinia inclufive, to the

## For Sailing on the Coafls of Itah.

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the Cafle of b the Patione yanchor to - :ood Roal

Hares, the cfore lhenes, a W.atcr; m ood Anchor.
are pult the banft a hog Itmutams lie Foot of then. he ciulph, of ods that are
n the Main and of the Fire-Tower the wetlerc two Capes of the fame board : and g Milc E. of and run beve, $;$ to 8 Fa .
N. from Cape dic Larda is a Creck and a lithe Bay, whac yon have very good anchoring tate from the NW. and S.W Wind: 'Tis a clean shore, and you may fail by it in S $\omega$ o 12 Fa. As you go, you will fec a low crooked Point rumby out into the Sca, and a Bay behind or beyond it, calld the Bery de (irimital: : Bring the Point to bear $S W$. and open the City of Girimatutt ctole upon the Strand with two Caftles. one oppofite to the other; that on the lowefl (iromed is calld st. Whatin.

It you are bound into Truewh, take a Pilot, for there are feveral Rocks and llands about the Entrance, which, unleds you are acyunimted, may be dangerous: Befides, in tome pats of the Bay you canot anchor, the Ground is to fift, the Anchors will hold no purchate. Inded the whole Bay is a very indificeren place tor shups to rade m; tor befides the loone foft Ground, it the Wads chance to blow S.S.E. or S.E. they bring in a very great Soa, and it's ereat Odds but you are dricon on Shore: If you find this heme to be, then is fom as you perceive a lecrant begm to blow, prepare to be tonc, weigh, and ftecr for the Illes of Ihotes, or go away tor Thombon.
Two Is. from Tinemi ES E, cafterly, is a low Point witha L, Whe houfe on it: There is no Road at the Pome, but about a L. farther E is Cafe Rofa, N. of wheh hes the Haven ot C.annamb, a very good Sccunty for all Shus talime this way: 'I lic I.and from 1 reme nt hether is all uncern and tond, and mo ridug any where.

To go me Cimnano kecp under the Shore E. by S. till you fee two hetle Illands whilh he before the Entrance of the H. ven: You may ancher under the Caflde! !/and, wheh is one of them, in is Fa. About a Gun-thot from the Cafle to far ward, there is a Sand or Bank; when you are g mot m you have $3_{0}$ Fa. When you are in, you lic with one Anchor in Stoy Fa and a Head fatt a-thore. You are fife here from .ll Winds, except a SE. Which blows right in: If yourare not acyuanted, fise a Gun, and the Pituts will come of to you, and carry you in.
 E.NE. There is a light home on the Cape, and under it a fine claar landy Bay: You nofe woll here in \& Fi. free trom cafterly Wirds. Withinz I s. of this hate bisy to the : orthward, lies Autibes, a hetle cuey with a Calle: They have a very good Mole on the fide next the Sca, but 'us only fie fior tmall V effels

Italy, from Nice aind Villa Franca on the Domimioiss inclufiee, to the City of Venice alfo inclufire.
upon it，－he firft we fee ipon this Coaft ；it is in the wetter－ moft Point of the Gulph of Troticul：Between the two Capes is St．Tort，a litele Place in the Bottom of a Bay of the fame Name．To go in there，kcep the W．Shore a－board；and as you will fee two Rocks in the way，about a long Mile E．of Cape de Lard，Ieave them on the Larboard－fide，and run he－ twecn them md the Maiu．Within them you have 7 to \＆Fa． and without is to $=0$ ．

## Sailiay Directions for the Coafts of Italy，from of the King of Sardinia inclufiec， 101

 Alt－North－Eaft from Autibes lies the Harbour of Nice，or Nillia．This may be reckon＇d the firft Porr in Italy，and begins the Gutfy of Genoa．Nice lies to near the Sca，that in ftormy Weather it beats up againtt the Walls of the Town．From Cafe（ia－ path it lics NE．and is ditt．＋L．s．Thic Cafte is a good Sca－ mark，it flands to the S．E．of the Town on a very high Moun－ tain，you may fec it 12 Ls．out at Sca．

The Road is under the Cattle farther S．E．＇Tis but a wild Road at beft，and in Cate of a Levant is fearec fifferable，for which reafon the Slips gencrally rum into Itlla Franeat for Sheiter in Cate of a S．E or S．W．Wind．In the Roadthe Ships he with a Cable on Shore in $\mathrm{j}_{0}$ to as Fa．

Vilhe Fioncalics E．S．E．from this Koad of Nice，dift I Milc． It is malarge secp Bay，which is none of the caficft to enter， or of the latelt when you are in；which is occafion＇d by the high l＇omes ar the Entrance，and the Hills on both fides when you are paft them，all whinch bring fiedden Gufts and Squalls， and then Calms as fudden and cqually dangerous ：but when you are pals＇d thefe Difficultics，and come up to the Town，which lies on the W．fide，you have a good taite Road in 9 or ${ }_{10} \mathrm{Fa}$ ．When you ride before the Town，the Mouth of the Bay bears S．E by S and the E Point S．S．E The two Points of the Bay lic W．N．W．and ENE．and the En－ trance is about a Nile betwecn．On the W．Point is a Light－ hone，the E fide is high but bare，only there is an old Clapel upon Capele／prert．abour $1 \div$ Mile E．from it：The Shore is Ilcep all the way to the caftward，zoto 30 ，to $\mathrm{g}_{\mathrm{o}} \mathrm{Fa}$ ． clute to the Rocks；betwen the W．Point of the Bay and the Town of Niece，is a pretty large Bay，with an open Road too，
 two Bays．I advife no body to scnture into any of thefe Bays，unlefs driven by necelity；for a very litele dift．from the Shore they will have 100 to 120 Fa ．Water，and the Shore fony and flecp．

There is a hey and a Picr Healat lilla Franca for finall Ships；but larger V＇cficls go farther into the Bay，and anchor under the W．Shore．The Bay of solpers，which is about a
$s$ in the weflerthe two Capes ay of the lame a-board; and long Milc E: of c, and run behave 9 to 8 fa .

From the Clonter Thand to C..per mompo the Combe lics F.N.E. There is a Light hemte on the Cape, and unter it a finc clear landy Bay: You ride well licere in Slin. free from cafterly Winds. Within 2 Ls of this ditule biy to the morthward, lics Antibes, a litele City with a Caltle: They have a very good Mole on the fide next the Sca, but'us only fit for timill Veffels

## of Italy, from Nice and Villat Franca in the Dominions a inclufive, to the City of Venice alfo inclufiee.

he Harbour of ckon'd the firft of Cienoa. Nice' Weather is beats From Cafe (iais a good Scary high Moun-

Tis but a wild filferable. for Ha I'ranea for Road the Shups
ce, dift 1 Milc. caficit to enter, cafion'd by the both fides when Ifts and Squalls, ingcrous ; but come up to ve a good lite the Town, the oint S.S.E The E. and the EnPoint is a Lightthere is an old from it: The tu 30 , to 50 F. 1. the Bay and the open Road too, it were between to any of thele little dift. from , and the Shore
ranca for fmall 3ay, and anchor hich is about a
I. farther caltward, is a much better Sheleer in cafe of a Levant than this of V'illd lialica: 'Tis a very good Road, and there is a good Haven ; nor is there need of a Pilot, for you may come to an Anchor any where.

Onc L. Atill farther E. and 2 Ls. N.E. from C.itpe St. Vi/ficion, lics the Tower of Momaco: The City is fitmate mider a Mountain, under the F. Point of which is the Road, which is very lafe for weiterly. Winds, but fomething open to a Lecalli.

You may know the Port of Momaco by the high Mountain mention'd above, which is feen far into the Sea. All the Coatt from Momaco, and thence to Cape de Melle, is a clear Strand, being a fine landy Shore ftrething away N.E. by E: and E.N.E neither Haven or Road, but limall Heads to receive Barks and limall Craft all the way to Monaco and Cape de Medtio. Between them are the finall Places of Menton, lintimishit, Bordignere, St. Remo, and feveral others. The Current rums Itrong here to the weftward from the Coaft of cienor, to that Ships bound from the blecres are hard put to it to tum in tor any of thefe Ports.

From (idpe de Aelle the Shore trends away N.W. On the N. fide of the Point, cloie to the Stuand, is a hetle Villige call'd /halld, with a great Rock betore it, and a Light-honte uponit. Between the Town and the Rock is very goodanchoring, lafe from W.NW. and NW. or northerly Wads, but too open to the Levants. The Shone going on inortherly here, you have no other Road or Habour to Cafe Nole except frinal. Here Ships ride woll, white the :ood Weather lafts, but in cate of Storms they mult cuher run back to Cafie de Melle, and anchor under the light-houle, or get about Cape Nols, and away to Sazoma.

There is a Fort to the northward of Cape Noli, and molut with the Fort a very good Road for wefterly Winds, or $S \mathrm{~W}$. or N.W. bue bad in a Levant, as all the refl are There is a Chapel with a Scecple upon the Pome of Ciofe Noli, which is a fair Mark to know it at a diftance. On the $N$. fide of the Cape is the Village $N^{\prime}$ oll or Noli, where the bell of the Road lics.


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## Directions for Sailing on the Coaft

N. from the Cape is the Town of $V_{a i}$, dift.; Ls. with a limall Bay and a good Road. In the Courle fromCape Noli to Vai, the Cape bearing N.W. by N. from you, in the Height you will fec the City of Genon from the Deck of your Ship. Dift. 10 Ls. from Cape Noll N.E. by E. and n..dway betwecn in the fame Courfe N.E. fron the Cape, lies the City and Harbour of Savona, formerly a good Port, and capable of recciving great Ships; but fince ir has becin fubject to the Government of the Gernocfe, the Haven is damm'd up wirh Ships funk in the Entrance (as reported) on purpole to fopil the Trade; fo that now few Ships can cone in, or lic if they were in, except fuch as do not draw above 7 to 9 Foor Water.

There are no Ports or Roads, or fo much as a Point to flelter any Ship under, between Savona and Genoa: The City of Genoa lics N.E. from Cape de Melle, dift. 20 Ls. The Current ftill runs here ftrong to the weftward, and 'ris ve. ry hard to get out of the Bay with the Wind at E. or S.E. Theretore if you are bound in, keep to the caftward as much as you can, till you come off of the Port.
Geizaz is a large Harbour within a Mole, the Heads running far our into the Sca On the caftermoft Point or Head of the Mole is a Light-houfe Tower, or as the Gerrocfe call it a Lantborn: the W. Point docs not run out fo far as the Lanthorn Poinc. If you are bound in here, you muft kecp the Fair Way, which is Mid-Channel between the W. Head of the Mole and the 1.ight-houfe. The Head on which the Light-houfe ftands is a Point of Land, all Rocks and foul a little way off; therefore you muft give it a fmall Birth as yougo in; the Entrance it felf is clean and Water cnough : when you are in, you ride fecurc, with two Anchors off in the Harbour, and two Cables a-fhore. You need no Pilot.

From Genoa the Coaft changes irs Situation, the Land trending away S. and the Courfe from the Head of the Mole to Cape f'ill, or Fino, lies E.S.E. dift. S Ls, the Coaft is a clean Strand, benurify'd wirh finc Buildinge, moft of which are made ufe of for Sca-marks, but no Harbour or Road in all the way, juft as is the Cate on the other fide from Cape Melle.

P'ortofino has a Haven for Slips of a middling fize; the Entrance is narrow, and it has a Light-houfe on the W. Point; and to the weftward of that, clofe under the Point, is very good anchoring, fecurc from E. and S.E. Winds; but W. or N.W. blow dircatly in.
$N^{\prime}$. $B$. The Shore on this fide lying E. from the Sca, the Leciant Wiads have no ill Effct here, as they have on the other Coalt from the Hieres to Genoa; fo that we hear no more of them for a great while.
The Coaft is foul all about Cape Fin, and is dangerous; fo that you thould be carctul not to anchor there, if it can be avoided. If you would go into the Haven, keep by the W. Point, and you need no Pilot, or any farther Inftructions, only to anchor before the Town in 6 to 7 Fa. but go not up beyond the Town, for there you will hazard running a-ground. This Haven, tho linall, has fich an excellent Situation, that no Wind can hurt you, if you ride in the right place before the Town.
at $\operatorname{Por}$ orto $S_{A}$ high Shore make a foul specia.
From ${ }^{\text {Po }}$ by S . dift. by S. 3 S L Coaft of th Tufcall
in the $w$ Gorgona, w Whin you Mountain o your Courfe rhe caftwar from Cape a high Land u Sea-mark for and W.S.W. ra, and witl
When yo Courfe jult onit, calld on the Poin Malora, w boru, and ftrecthing $S$ lies to tho within is lil Force of which is by good Anch
Incnerin. thing to do Larboard.fi with it inte all a clear $S$
S. of the Tower buil may go bc the Haven. guide Ships lora Sand; lora and $t$ half wefter

To the alfo in the Towers, Marks to crmoft, w and lies du

Youma Matoria S the Sand i
at Porto Speza. Herc is no Harbour, but you ride under a high Shore in 7 to 8 Fa and if the Wind veers to the S you make a foul Shore, and muft run out of the Bay, if poffible, to Specia.

Irom Porto Specia, the next Port is Lealoonn; it lics S.E. by S. dift. abour a Ls. Leghorn lics from Cape de Melte E. by S. $3^{5}$ Ls. and from Cape Corfo N.E. by E. 23 Ls. the E. Coaft of the Ifle of Corfica lying Iarallel with the Coalt of Tucany.
in the way from Cape Corfo to Leghorn you make the lland Gorgona, which lics offrof Leghoria S.W. by W. ditt. 7 to 3 Ls. When you come the Length of Gorgoia, you will make the Mountain of Leghorn, or Mount Nerro, by which youknow your Courfe, and keep it in view all the way: it lies a litele to the caftward of the City; but at Sea, clipecially as you come from Cape de Melle, it is feen juft over or behind it. There is a high Land upon Giorgona, with a Caftle upon it, which is the Sea-mark for your Courle: Bring this Caftle to bear EN.E. and and W.S.W. and you go risht with the Rock upon the Malo$r a$, and with the Port of $L$ Leglorn.

When you come nearer to Leghoith, you will fee (in the Courle juft mention'd) a Rock in the Sea, with a little Tower upon it, call'd the Malara, buile for a Mark to the Post; it is plac'd on the Point of a long Riff or Bank of Sand, call'd altio the Malora, which runs our from the Shore N. by W. from Legborn, and N.W. from the Mouth of the River A1\%:o; and ftretching S. and S. by E. and S. E. in length above 5 miles, lics to thoal, that no Ships can go over it; to that the Sea within is like a Bay: and this is the Sand, which breaking the Force of the Sca on the N.W. makes the Road of Leglom, which is by that means an admirable fafe Harbour, with very good Anchoring, in any Depth of Water from 3 to 15 Fa .

In entring this Road you need no Pilot, nor have you any thing to do but to keep the Rock upon the Malora on your Larboard fide, giving it a Birth of about half a mile; then run with it into the Road, and anchor as you think fit; therc's all a clear Sound within, with good Shoalings.
S. of the City 1 tands a great Light-houde, being a high Stone Tower built in the Water, and fo far out, that timall Veffels may go between it and the Shore; and tome fill that way to the Haven. Here is a Light always kept in the Night, to guide Ships into the Road, that they may go clear of the Micilora Sand; the Courfe is from Gorgona N.E by E. the Malora and the Light-houte bearing E. and W. half cafterly and half wefterly, the Paffage between about $3 \div$ miles.

To the N . of the Moli-hcad are + stone Towers, buite alfo in the Water, as the Lighe-houte is; they call them WatchTowers, but keep no Watch in them; yet they are good Marks to pilot the Ships which go into the Mole: the outcrmoft, which they call the Powder Tower, is the hagedt, and lies due N . from the Boca, or Mouth of the Mole.

Youmay run into the Road in whar Depth you pleale, the Malora Sand having very good Shoalings from 10 Fa to 1 ; the Sand is feen by the Breach of the Sca upon it, almolt as well as if it lay dry; to that there is no danger of any kind.
is the Cale on the other fide from Cape Methe.
Portofino has a Haven for Ships of a middling frece the Entrance is narrow, and it has a Light-houfe on the W. Point; and to the weftward of that, clole under the Point, is very good anchoring, lecure from E. and S.E. Winds; but W. or N.W. blow directly in.
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The Coaft is foul all about Cape Fin, and is dangerous; fo that you thould be carefisl not to anchor there, if it can be avoided. If you would go into the Haven, keep by the W. Point, and you need no Pilot, or any farther Inftructions, only to anchor betore the Town in 6 to ${ }_{7} \mathrm{Fa}$. but go not up beyond the Town, for therc you will hazard running a-ground. This Haven, tho timall, has fuch an excellent Situation, that no Wind can hurt you, if you ride in the right place before the Town.
N. of the Point is a little Bay, and towards the bottom of the Bay lies the populous Villiage of St. Ropollo, where is good anchoring juft betore it: You will know this Bay at a great diftance by a high Mountain, which looks off at Scalike an Ifland, but as you come nearer thews it lelf to be part of the Main.

From hence the Shore differs again; and as the other was all a clcan Sand, with no Points or Roads, this part of the Cosft is full of them all the way to Porto Spe $\approx a$, or Specia, which lies E.S.E. from Porto-Fino i IS. This is another fate lorr, where (when you are in) no Wind can hurt you; yet becaule there are many Anchorings and Points within the Port and Bay, you thould call for a Pilot.

U' (r:o specin is at the Bottom of a decp) Gulph, which goes in N.N.W. and S.S.E. In the Entrance is a little lland, or Jarge Rock rather, with a Lighe-houte upon it very high : it lics near the W. Point of the Gulph: within and between that and the Point, the Ciround is foul, and lome fank Rocks, as well as others above Water, make we Palfige next to impracmabie wathout a Pilot. On the other fode the Fair Way is cood, and makes a decp and clear Chanel ; and you have 10 1. Water clole mader the Shore.

After you are thro' the na: "oweft of the lintrance, the Bay Widens to more than 2 Ls. and on the N.W fide you have 2 lmaller Bays, where Ships ride with thegreatelt Satety imaginabie, mander the Lee of a hig!: Shore, and yet in very good holding Gitound; the Inland with rhe Tower alfo breaking off the Sca, to that it it flould blow hard into the Bay, you ride very caty on that fide. efpecially if the Winds blow from any part of the V . or the N . and on the other hand, if it blows from IIIJ Point to the caltward of the $N$. or due E. then they have very good anchomg under the E. Point, where there is fafe Riding in 10 la. hard Sand.

E, S.l:. from hence is lia Reqeo, dift. o Is. or thercabouts, a limall Port, and in a little culph too, but not to dece in, as
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S. of tho Tower bui may go bo the Haven. guide Ships lova Sand; lora and t half wefter

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N. B. T which go thro narrow
From h 16 Ls . In born, lics
Shore abou been loft ul to 10 Foo great Breal Courfe duc Courf:, til of the Inlat Shoal, and Stonc Sho: Cape Corfo pria to bea may go aw $N . B$. dift. Ls.
S. of the City ftands a great Light-houfe, being a high Stonc Tower built in the Water, and to far our, that fimall Veffels may go between it and the Shore; and tome fail that way to the Haven. Here is a Light always kept in the Night, to guide Ships into the Road, that they may go clear of the 1 licilora Sand; the Courfe is from Gorgona N.E. by E. the Malora and the Light-houfe bearing E. and W. half cafterly and half wefterly, the Paffage between about $3^{\frac{1}{2}}$ miles.

To the $N$. of the Mole-bead are 4 Stone Towers, buile alfo in the Water, as the Light-houfe is; they call them WatchTowers, but keep no Warch in them; yet they are good Marks to pilot the Ships which go into the Mole: the outcrmoft, which they call the 'Pozder Tower', is the hargent, and lies due N. from the Boca, or Mouth of the Nole.

You may run into the Road in what Depth you pleafe, the Malora Sand having very good Shoalings from 10 Fa. to 1 ; the Sand is feen by the Breach of the Sca upon it, almoft as well as if it lay dry; fo that there is no danger of any kind.

Small Ships go into the Mole it felf, and larger may; but the Road is fo good, they feldom do: if they go in at any time, it is when chas'd in by Rovers and Pirates; and in fuch cafes great Ships have run in at all Hazord, but then Pilots come off immediately to bring them in.

In the Mouth of the Haven, juft at the Ertrance, lies a great Rock above Water, call'd the Moletta; it looks like an Ifland, and has feveral Rocks about it, efpecially on the $\mathbf{N}$. fide towards the Powder. Tower; but the Channel lies in on the S. fide, between the Rock and the Mole, and the Cannon of the Fort commands the Entrance, fo that no Enemy will venture in after you.
$N . B$. There are fome fmall Channels over the Malora Sand, which fmall Veffels, and fuch as are well acquainted, may go thro'; but great Ships can not pafs them, they are too narrow, as well as too thoal.
From hence the Shore lies away S. and S. by E. to Piombino 16 Ls . In the Fair Way between, and about 7 Ls. from Legborn, lics a ftony rocky Shoal or Bank; it lies off from the Shore about 2 Ls. 'tis a dangerous place, and many Ships have been loft upon it, efyecially in the Night; it has not above 8 to io Foot Water over it, and in hard Gales youmay fee a great Breach of the Sce upon it. To avoid it, keep your Courfe due S. from the ilalora Rock, and go fo far with that Courf?, till you lee the Illand Capria even with the N. Point of the Intand of Corjica; then you are jutt the length of the Shoal, and may go away S.S.E. for Piombino, clear of the Stone Shoal: but if the Weather is foul, . Ind you camot fee Cape Corfo, which is far W. go on then S. till you briog Culpria to bear E.N.E. then you are clear of the Scone Shonl, and may go away for Piombono W. by S.
N. B. The Stone Shoal lies from Piombi:o N half enterly, dift. 7 Ls.

## Directions for Sailing on the

Off of Pompano, las the Idle of Ell, or Elba, the Couric S.W. and S.W. by W. diff. $3^{\frac{1}{2}}$ Ls. from Leglioriz it is 16 Ls. S. and S. by W. leaving Corgona and Capra both on the Starboard fides, and from Capri o Ls. the Comte S.E. and N.W.

The Inland of Capra, tho mall, has a fair dandy Bay on the E. fie of it. where is a good Road sheltered from S.W. and N.W. Winds, in 5 to 7 Fa good Ground; but it lies open to a N. or N.E. Wind; it lies from $L$ e porn SW. and S.W. by W. dit. 12 Iss. and 5 to 6 Is. from Cingonal S.S.W.

Elba is a momentous place, youmay fee the Land 12 to ${ }_{13}$ Ls. at Sea, especially as you come from the northward: There are two dial hands an the Paffage from Piombino to Pill, with a Light-houte on each of them; the biggelt is called Palmaiora, the leaf Palmizora: you leave them on your Larboard fade, going to Elba from the Main, or pass between then, as Wind and Weather may serve.

There is a very good Harbour on the NE. fid of this Inland, and another on the S. fade of it: The first is a Place of lmportance, called 'porto ficigo; and for that reafon there is a Cate to defend the Haven, called Cofimopoli; 'is an excellent Harbour, where Ships lie fecur'd by the Cattle from the Turkish Corsairs, and by the Cafte and the high Point from all Winds that can blow, fo that'tis a ufeful Point to Navigaton on both Accounts. As you go in, you leave the Cate on the Starboard fides, and anchor a little beyond the Pier, with two Cables to Seaward and a Head-faft a-lhore; 'xis very good Riding, andelcan Ground.

The other Haven is on the S.E. Part of the Inland, and is called Porto Lougone, where there is a ftrong Fortress which fecures the Ships too, but the Harbour is not to good as the other. S.W. from Porto Longoue, diff. 3 Ls. lies a little low flat hand called phanofi, it is leon but a little way; and due S. lies another, which is as high, as that is low; 'is called Nate (loft, and is len far at Sea; it lies S.E. by S. from the S.W. Point of Plemofi, diff. 5 Ls.
S.S.W. from the S.W. Point of the Inland Planofit lie the dangerous Rocks cali'd the Formiguts; they are a Clutter of mall Rocks lying forme under, and lome a little above Water, the molt not above, Foot: The biggeft of them do not reach above 4 or 5 Ships length; but there is a Tail of them on the N. fide, which ftretches away N. into the Sea: tho they lie under Water, they are to be teen if you are near them; and by the Breach of the Sea upon them, when farther off.

There are many Marks to know then by, viz. when you atc coming from the Weft, and the Rocks are E. from you a Mulquethot off, the N. Point of Monte C'lriffi will bear due E. and the S. Point E. by S. 3 Ls. dit. Again, keep Wont Cbrifti E. by N. and hail to or from it, then you are clear of the Forinigtes to the S. or keep Monte Cbriffa E.S.E. then you will be clear alfo to the northward.
S.L. by E. from Tiombino diff. 7 Ls. is Cafligliano; 'tic fo finally a Harbour, and of to little import, that our Engli/h, Pilots have not thought it worth mention; which is the more Arrange, because there is a very good Road in 5 te. F Fa.

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## Sailing on the Coafis of Italy.

c Couric is 16 Ls . the Star1 N.W. y on the md N.W. oaN.or ; W. dift.
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when you rom you a will bear gain, kcep n you are rifli E.S.E.
ro; 'tis fo ur Englifh ich is the 5 te. 8 Fa

Lis E.S.E dift. 10 Ls. The Entrance into the Havea is cals to e known by a particular Mark, to that you need no Phot: There ftands an old Wall in the Sca about a Fa. above Water; behind it is the Haven, and on the W. fide of it on the Shore fands a Jight houle; you may fail into the Haven on cither fide of the Wall, but the E. fide is the deepeft, beng - ta.
There runs a Shoal from the Point, which you mull avoid, becaute the Ground allo is fout; if you go in on the W. fide of the Wall, you have ; la in the Fair Way, and more when you are in. In the Haicn you come to an anchor, with two Anchors in the Water, and two Head fafts in Rings upon the Wall ; this is the Pope's Town, and is hately made a free Port.

From Cizita Ficcia the next place is Offia, the Mouth of the River Tilier, dint 6 Ls. the Courfe E.S.E. 'Tis a very indifferent Port now, and will receive none but fimall Velfels: The old Haven which was anticnely the P'ort to the City of Rome, is now calld leorto, but is fipoild, and of no ule in Navigation; it lics a little W. of Offia.

From the Mouth of Tibler dift. 7 Ls . is C.pe Antin, the Courfe S.E by S. the City Nettaino lies E. of the Cape ditt. half a L. the old Haven remams, but is ufelefs alfo, except for fimall Craft. From this Cape to Momte Corcclli is allo 7 Ls. S.E. by S. 'tis a long low Point lying far into the Sca; fo that at it diflunce you may miftake it tor an Ifland; the Mountain which gives it the Nume, ftanding farther E . within the Main. Round about this Point ftand + or 5 Watch Towers.

From this Point to Gaeta is 8 Ls. E. by S. being on the Coaft of Naples: Berween them are leveral limall places. as Terracilla, dift. from Corcelli $2+$ Ls. it had formerly a good Haven, but is now fpoild and not fit for ufe, as are fevera! other finall places. Ciatia lics in a bay, where you have goodanchoring for all W'inds. except that a tourherly, and a S.E. Wind blows right in. The Mountain call'd Monte de Souta Trinidadic is a good Mark to know the P'ore by ; the Town ftands upon pait of it, and another part makes the Point which forms the Haven: the Road is capable of fecuring a great Ilect. Irom this Point to the W . end of the Illand of 1/cibia, the Courfe lics S.E by S. and S.S.E. dilt. 12 . Ls.

The ifland of Ifibia lics off of Mola S.E. by S. and S.S.E. dift. 12 Ls. and trom Naples 8 Ls. S.W. The Courfe from Ifictata to Naples N.E. by E. and from Ifibia to Caftellamer is E. 9 Ls. There is good anchoring in Caffellamer under the Fort, or at the $\mathrm{l}^{\prime}$ icr, being the Entrance into the Mole, clofe to the City of Naples.

From the Gulph of Naples to the Fare or Fare of Mef. (ina, there is not one Havcn, Crcck, Road, or Port of any Contequence; if you have made the Bay, and are bound into the Porr, kecp away E. or N.E. according as you are fituated; and when you come fair open witis the Bay, run right in with the Channcl, directly for the City. Between the Points or Pier of the Haven and the Land, you may anchor without fear, in 5 to 6 Fa. Ships bound out ride behind the lland Nafita, where the Caftle ftands, there is good riding for great Ships ; but take care not to go to the caftward of the difand
dangerous Rocks calld the Formigues; they are a Clutce of tmall Rocks lying fome under, and tome a little above Water, the molt not above; Foot: The biggeft of them do not reach above 4 or 5 Ships length; but there is a Tail of them on the N. fide, which ftretches away N. into the Sca: tho they lie under Water, they are to be feen if you are near them; and by the Breach of the Sea upon them, when farther off.

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S.L. by E. from 'Piombino dift. 7 Ls. is Caffigliano; 'tis fo fimall a Harbour, and of to little imporr, that our Eugli/h, lilots have not thought it worth mention; which is the more ftrange, becaufe there is a very good Road in 5 to 8 Fa . fecure from northerly and cafterly winds: it ftands at the Mouth of the great Lake call'd Lago di Caftigliora, where are likewife fome othor Roads, and a litele Haven at Cilya, where Ships often put in for Water and Provifions.

From Cajtilians to Monte Arigentaro the Courfe is duc S.E. dift. 10 Ls. occafion'd by the Situation of Caftisliano lying in the Bay a Point to the E. for from theE. cnd of Elba to Monte Aiscitaro; the dift. is 16 Ls . and from $P$ Piombino the lame.

Argentaro is a high Point running far out into the Sca W.N.W. The Haven of Orbitello is on one fide at the Foot of the Mountain Argentaro, and 'Porto Hercole or Hercule on the other. Perto Hercule is a commodious Haven, able to receive great Ships; the Entrance is between two Cafles; when they open to your View, they how you the Channel or Fair Way into the Port; when you are enter'd the Haven, come to an anchor on the W. fide: you will need no Pilot.
N.W. from Argeataro lic another Sctt of Formigues, being Rocks like the former, and call'd fo for that realon; they are ${ }_{3}$ in Number, the wettermoft is the largeft ; they have many iinall Rocks about them; but as they lic towards the Shore more out of the way, to they are not fo dangerous to Navigation as the other: there are 2 other Inlands lie off at Sca 4 Ls. N.W. from Aicutaro, they lic N.N.W. and S.S.E. Onc is called Gisio, and the other Xanuti.

From Porto Hercule the next Port of Confequence is Civitaliccia, or as our Sailors call it, Civita Veech: the Courle
re a Clufter of above Water, them do not Tail of them Sca: tho they re near them; a farther off. iz. when you E. from you a iffi will bear

Again, kcep then you are .Clorifli E.S.E.
igliano ; 'tis fo at our Engli/h which is the ad in 5 to 8 Fa. it ftands at the iora, where are ar Cilya, where
urfe is duc S.E. isliano lying in Elba to Monte ino the fame. the Sca W.N.W. che Foot of the Hercule on the Haven, able to en two Caftes; you the Channcl er'd the Haven, ced uo Pilor.
Formigues, bcing reafon; they are licy have many wards the Shore rous to Navigatioff at $\mathrm{Sca}+$ ls. S.S.E. Onc is
fequence is Civirects: the Courfe
 $1 / i b s$, the Courti lics S.E by S. and S.S.F. dist. 12 . Ls.

The Mland of Ifibsia lies oll of Mola S.E. by S. and S.S.E. dift. 12 L.s. and trom Naples 8 Ls. S.W. The Courfe from Jfibsa to Naples N.E. by E. and from If bhia to Caflcllamer is E. 9 I.s. 'There is good anchoring in Caflethamer under the Fort, or at the l'icr, being the Entrance into the Mole, clote to the City of Naples.

From the Gulph of Naples to the Fire or liare of Meffint, there is not one Haven, Creck, Road, or Port of any Coniequence; if you have made the Bay, and are bound into the Porr, kecp away E. or N.E. according as you are fituated; and when you come fair open with the Bay, run right in with the Channel, directly for the City. Between the Points or l'ier of the Haven and the Land, you may anchor without fear, in 5 to 6 Fa. Ships bound out ride behind the Itland Nafita, where the Caftle ftands, there is good riding for great Ships; but take care not to go to the caltward of the liland, all the Shore on that fide being foul ; but to the weftward, the Water being decp, is good anchoring in + to 5 Fa good hard Sand.

All the Coaft, as is faid above, from Naples fouthward, tho pretty clean, has no Pores, Rivers or Havens for the Benefie of Navigation, or the Safery of the Marincrs; fome few places there are, where in Cale of Neceflity Ships may ride, but the beit of them are very indifferent for Safety; fuch as,

1. The Illand of Capri, 5 Ls. from the Gulph of Naples due S.
2. From Capri to Almafri the Courfi S.E. there is a Road under the Shore near the Point, which is high and fhelter'd from the cafterly and N.E. Winds, but here is no Haven; and foutherly and wefterly winds blow right in.
$N$. B. Sailors of all Men thould not pats it over, that at this Town of Almafir the firlt ute of the Compats (or of the Load ftone in failing) was dilcover'd and contriv'd.
3. Salerno, 2 Ls. from Alinafit; there allo is no Haven, but a good hard Sand, and very fate anchoring for northerly and cafterly Winds, but very dangerous in other Winds.
4. Cape 'Policaltro, or rather the Gulph of Policaftro, is from Salerno 12 Ls. E.S.E. In all thete, or forwards, where the Coaft trends away S.S.E. to the Vare or Strait of Me/fine., which is 30 L.s. at lcalt, you have no good Harbour, nor any Port of Confequence.

## Sailing Directions for the Iflands $n$

## Suiling Directions for the Iflands on the Coafts of five ; and firft of the IJland



H E northermoft Point of the Inand of Corfica is calli'd Cape Corfo ; it has two tinaller Points, which lic 3 to 4 Ls. S.E. from one another; one is calld Cape Blanco, and the other Cape Sagri: There is a kind of Harbour between them, where the two Points breaking off the Sca, you may ride very fecurc from a wenterly and S.W. Wind.

Abour a L. foutherly from Cape Corfo there is a little Inland, with a Light-houte upon it ; and half a L. S. of the Lighthoulce is a landy Bay, where alfo there is a very good Road: and there is another Lighr-houfe alfo S.E. from the Illand on a Rook or Cliff by the Water's Edge : This Rock is call'd by fome Cape $S_{\text {dug }}$, but it is by miftake, the Cape being farther S.E. Coming from the northward, at firt fight it makes like an Ifland, but when you are about the Point, you fec it joins to the Main.

As you fail by it, you fec two crooked Points, and a Bay between, which feems plain and fair. There is a Caftle on the S. fide of the Point; at a diftance it fecms as if it was a good fhelter from S.S.W. aud wefterly Winds, but when you are in, it does not prove fo : Alfo I think the Ground is not good for Anchoring. Befides, the N. Land there, is higher than the S. and the Points lie fo flat, and the Land fo low, that they are no Sccurity at all.
Some cell us allo, that there is neither Bay nor Road on the L. fide of Cor:/ica, yet Ships do fiequently ride there, and there is good Anchor Ground and hard Sand in many places, tho not well fhacter'd, or fecur'd from Rocks, and very open to the Livalut Winds.

There is a low piece of Ground S. by E. from Cape Sagri, thruffing out into the Sea beyond all the Rocks, where the Town of Simo itands. dift. 12 Ls. from the Cape; a blind black Rock tics 4 Ls. to Scaward from it on the E fide; there canr. te be above 3 Foor Water on it, by reafon of the violent Ripplings and Breach of the Sca upon it: you ought to be very carctul of this Rock, as you fail by, for it is little bigger than a Boat, and you may lound long before you find it.

At the Entrance of a limall In.und call'd Giglia, or Ligli, lics the Haven of Veclizo S.W. from Cape Sagri i i Ls. you may go in on either fide the Illand; there is good anchoring fafe from all Winds. Some fmall Iflands lic withour the S. Poine, and they are fou on the S. part alfo, fo that when you go without them, you muft be fure to give them a good Birth.
S.W. from thofe Inands lics St. Ainanfo, dift. 5 Ls. a bold Cape, the Courfe S.W. and the Bay of St. Bonifaciolies 3 Ls. S.W. by W. from the Point ; and upon the Point it felf fands
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If yo Corfica, thing c gct as Wind: ful, if $y$

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## the Coafts of Italy, from Corfica to Malta inclu$t$ of the IJland of Corfica.

Corfica is nes, which ac is call'd : Thare is e the two urc from a
telc Ifland, the Lightod Road : Illand on a $s$ call'd by ing farther makes like fec it joins
and a Bay utte on the vas a good you are in, good for than the that they
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Xape Sagri, the Town Jlack Rock ne ot be aoplings and carctul of an a Boar,
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Ls. a bold in lics ${ }_{3}$ Ls. : felf ftands
a large Cafte, allo two Rocks calld La Vegi lic juft before the Haven: by all which Marks the Flace is very cafily known.
If you are fore'd to lie by to the caftward of the Ifland of Corfica, you may perhaps find a lecward Current, fo that nothing can be fived by turning; the beft way then will be to get a good Road to come to an Anchor in, and ride for ${ }^{2}$. Wind: and in fuch Cafe this Bay of Bonifacio is always helpful, if you can but fetch up fo far.
From Bonifacio it is 5 Ls. W.N.W. to the Inmd of Mona. qui: There are fome difficult Rocks in the way, and you cannot well fail between them, unlefs you are very well acquainted, to that I advife to kecp in the Fare, or Pafige with. out them, between thofe Rocks and Sardinia.

The Gulph of Talabo is the next Harbour of Note, it lics N.W. from Momagui dift. 4 Ls. if the Winds blow hard from the N.E. 'tis good riding here. Alfo 6 LS. N.W. by N. from Talabo lies Mlynte Rofa, and between them the Gulph of $12-$ juza. At the bottom of the Gulph is the Town of Sayano: This Bay or Gulph is a Rood almoft as good as a Harbou:, and as lafe Riding, fecure from all Winds from the N.W. to the S.W. Points.

About a L. W. from Mount Rofa are the inands calld Sagonara; between them and the Main you have a good Channel; but ${ }_{3}$ L.s. at Icaft from the Ifland S.E. there flretch our fome funken Rocks; which thofe that come out of the Gulph to fa: to the weftward flould be carctul to avoid, becaufe they are excecding dangerous.

The Gulph of Gemarea is on the N. fide of Monnt Rofa, which in relject of Convenicncy for good Anchoring, is allo much the fame as the Gulph of Ajazะo. There are fome Rocks alfo which lic out a L. into the Sea, and muft be avoidcd. They lic 8 Le. from Motunt Rofat towards the Bay of $A$ lan, N. by W. from the fouthward pare of it.
${ }_{9}$ Ls. N. by E. caftcrly is the beft Courfe from thofe Rocks to Cape Rivila, and there is good anchoring a! aleng the Coalt betwecn.

The Town of Calvi, which is one of the chicf Harens of Corfica, is about a L. and half due E. from Cape Rivilic; and the Ifland Point Rof is E. by N. at the fame diftance; between which and the Main is good anchoring in 2 or 3 places.

It is $\mathrm{I}_{2}$ Ls. from Point Rof to Cape Corfo, the Courfe is E.N.E. and there is a good Haven. Fierenzo is 6 Ls. duc E. from Rofa. The next is Cape Blanco. N.N.E. which makes the Circle of the whole Illand, jult ending at Citpe Corfo, where you fet out. this Rock, as you fail by, tor it is little bigger than a Boat, and jou may tound long be fore you find it.

At the Entrance of a linall Inhand calld Giglia, or Ligli, lics the Haven of Vechio S.W. from Cape Sagri it L.s. youmay go in on either fide the Ifland; there is good anchoring late from all Winds. Some finall Iflands lic without the S. Point, and they are foul on the S. part alfo, fo that when you go without them, you mutt be fure to give them a good Birth.
S.W. from thofe Inands lics St. Amanfo, dift. 5 Ls. a bold Cape, the Courle S.W. and the liay of St. Bonifacin lies 3 Ls. S.W. by W. from the Point ; and upon the Point it felf ftands

# Sailing Directions for the Illand of Sardinia, bee Ifland and the IJlan 



H E Paflage betwecu Corfica and Sardinia, beginning about St. Bonifacio on the S. part of the Mland of Corfica, and meatiting to the moft northerly Point of Sardinia, call'd Pomt T'ico, is 2 Ls. and a half broad.

But as they feldom crols here, the ordinary Paffage lies into a lutule Bay at 'Pufinero, where'tis about 3 Ls. over; from the H. c on of Bomifacto on the S.E. of Corfica, to the llland of Almani", the Courle is S.W. 1; I.s. and from Afinaria to the N. cod of Sardmia, or the N.W. Point calld Pone, is 9 Ls. and from Point P'ene' to the Illes of Cofta di 'Dona is 16 Ls . S. by E.

From Cofla di (T)oma to Point St. Narco, 'tis S. by E. 3 Ls. and 10 Ls. from St. Marco to the Itland of St. P'dro, the Counte S. by W.
S.. Pediro is a ftony or fhelly Intand of a reddifl Colour ; the $W$. end feems to be high, bending crooked downwards, about a Mile from the higheft Point: At the E. end 2 Rocks beabove, and fome moder Water. St. Pedroftands due W. ; I.s. dift. from the Inland Sardinia; and betwixt them a func barge Channel to turn in: there is a good Road allo to the caltward of St. Pedro, in wefterly W'inds.

The Inand of "'alma de Sall lies about 3 Ls. S.E. of St. Pridio; there is good lpace between them to fail or turn: Commonly the Turks lie lurking behind thect Itlands for Ships which fail this way to the Bay of Rofa, or to Cagliari. A Rock call'd l'aca lies clofe to Palma de Sall; but a good way off from the Shore, and more cafterly, lies the Rock Taro, 'ris the highelt of the two, and is about 5 Ls. S.E. dift. from si Pidro.

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5 Ls. a bold acin lics 3 Ls. it felf ftands
lan, N. by W. trom the louthward part of it.
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The Town of Calvi, which is one of the chicf Havens of Corgica, is about a L. an! half due E. from Caper Rivila; and the Ifland Point Rofit is E. by N. at the fame diftance ; between which and the Main is good anchoring in 2 or 3 places.

It is 12 Ls. from Point Rofa to Cape Corfo, the Courfic is E.N.E. and thacre is a good Haven. Fierenzo is 6 L. due E. from Rofa. The acxt is Cape Blanco. N.N.E. which makes the Circle of the whole Inland, juft ending at Cate Corfo, where you fit nut.

## S Sardinia, beginning at the Paffage between the faid and the IJland of Corfica.

iu, beginning the liland of rtherly Point s. and a half

Tage lics into cr; from the the Ifland of maria to the uc, is 9 Ls . ona is 16 Ls .
S. by E. ${ }^{\text {L Ls. }}$ Pedro, the difh Colour ; iwnwards, aend 2 Rocks ands duc W. ot them a fine dallo to the
S. S. of St. fail or turn: nds for Ships Cagliari. A a good way Rock Taro, E. dift. from

The Courfe to Cape Tolar from the Rock Vaca is 3 Ls. E. Tolar is the W. Point of the Bay of Rofit; 'tis a high bare ragged Point: there is a landy Bay E. of it, where there is even Ground, and in wefterly Winds a good Road : and the Coaft to the Ifland of Rofa from Point Tolar is 2 Ls. N.E. There is very deep Water in this Bay of Rofa.

This Ifland is pretty big, but ftony and flat; the Rocks are of a reddith Colour; there is a good and fair fandy Bay to the weftward of it, where you have from 10 to ${ }_{23} \mathrm{Fa}$. You may anchor any where, the nearer the Ifland the deeper, but 'tis not above 10 or 12 Fa . To the eaftward you may run into it in any thick Weather, or in the night time, 'tis all one, for it is a good fair Harbour, you need fear nothing but the Shore.

Cape Fironia is S.S.E. 2 Ls. from the Ifland Rofa: A Warch. Tower ftands on the Cape, and E. of it is a good Road for wefterly Wi:ads.

Cape Pulla, which is the W. Point of the Bay of Cagtiar:, is a large Leag. E.S.E. from C'ape Fironia; 'tis all rocky Ground on the W. fide of thote Capes. Cupe Pullo is a low Point: Coming from the weftward, and liailing about thas Cape N.E. towards Cagliari, you have good landy Ground, but 18 or 20 Fa . Water clofe to the Cape, iteep and ftony, and the Land is full of fimall Trees.

You may fee another Point when you are pafs'd Cape ${ }^{(P a l l i c}$ call'd Cape Saroch : Abour ${ }_{4}$ Ls off it appears like two Hills, or Inlands at firf, tho ir's firm Land ; and two Lighr-houies ftand on it : For the molt part it's a fair fandy Ground betwixt this and Cape T'ullo.

Four Ls. N. and N.N.E. from Cape Saroch, lics the Bay and City of Callaria or Cagliari; and to the W. between the

## Directions for Sailing o

Cape and the City is a great Bay, and low Land, all along the Water-fide, with good anchoring Ground, and an even tandy Shore

At the Port, or in the Bay of Cagliari, you may come to an anchor any where in 3 , 4 , or $;$ Fa. handy Ground; caft your Anchor juf before the City, there you lic late from all Winds: Under the Caftle, a L. from the Road, or 2 or 3 Ls. fiom Caytiar i, is it or 16 Fa . fandy Ground.
A Point calld the/l!at lies : Iteag. S.s. of the Town: This Point at firft thew's like an lland, when you come from the caftward into Cagliari Bal, yet it joins to the Main by a Fmall Neck of Land: But there is an liland hes to the weftward of this Point, and a Church and a Town fand on the Point of it. E. from this l'oint is a grat bay, with cecn fandy Ground all over it.
In $1+$ or 1 Fa. Water you may anchor; or + Is. from the City. If you come into this bay by night, and cannor get fight of Cayliart, the Bay is all over good Ground as abore.
At the thend of the Bay of Ciagliari lics the Ifland Corteluzs, dat. from Zilurt 7 Is. S.E. by E. but 12 or is Is. E. by N from Cape Ppulin: in W. and N.W. Winds there is a good Road under this mand; but the W. Point of it muft be fhumn'd, becaule it is foul Ground. This Itland of Ciortcluzo lies uncer Cufe Carbonera, which is the S.E. Point of Surdimiat.

Two Illands lic to the E. of Corteluzo; the innermoft is the hegheft; the caftermoft is callid Sorpentera, and has many finall Rocks about it. On each of thofe Iflands itands a Warch-Towe:, and on each of them fome Guns.
It you are bound for Cuglizri Bay, coming from the eaftward, and cannot get in by reafon of wefterly Winds, you may anchor under (oneldi $\approx 0$; but if unacquainted and dare mot, then fall about Cortchazo and Serpentera, and luff near to Cirbonera: Then to the N.W. you will fee a flaunting

## Sailizers Directioiss for the Ihand of Sicily, fro Coaft, 10 Palermo, Trapano,

TMHE Point of Meflina is low Land, and fandy Ground, on which ftands a Light-houfe: About ${ }_{3}$ I.s. fouthward of this Point lies the City at the Bottom of the Harbour, 'th the beft Haven in Sicily, having a hasce Moie. Thote that would go in there, need not take any PHor, or fear any thing, but fail clofe along the Shore on cither fide. Youmay come to an Anchor clole by the City, and moor to the Molc-head, with your Anchors to Scaward; there you lic fhelter'd in all Winds, you may anchor alfo without thi Haven if you think fir, it's all good Ground.

Thofe that would fail thro' the Vare of Mefliva from the fouthward, or caftwards to the $N$. muft kecp near the Coaft of Calathin, or the main Land of Italy, for the Current commonly fets to the nothward on that Shore: And contraywife, thote that would tail thro' to the fouthward, muft kecp

## s for Sailing on the Coafls of Sicily.

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a may come to y Ground; cant lic late from all d, or 2 or $;$ L.s.
of the Town: rou come from o the Main by a ies to the wetta fland on the B.y., with even

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 Winds there is sint of it mult be and of Cortchazo int of Sardinia. : inncrmoft is the and has many Illands ftands a ms.
g from the eaftcrly Winds, you ainted and dare a, and luff near 1 fec a ilaunting

Point, with a round Hill near it; then till you are paft the Rocks, kecp along the Shore and a Point flanding near to the Watch-Tower, and there anchor in 12 or 14 Fa. good fandy Ground: Near to the Tower is very deep Water, where you can't anchor, for you will find no Bottom ; but being at Anchor N . of the Tower, yon may fee an Ifland 3 Ls. to the northward, on which a Watch.T:uwer llands; and there you may have Wood, gool freth Water and Provifions, or whatever you fland in need of, for little Moncy.

Scven or 8 L.s. N. of Carbonera Pount lics an Illand, which flacws it felf when it lies N.W. by W. dift. 3 Ls. from you: lt's abour half a L. long, and two Light-houfes appear upon it, one to the S. end on the highet Land, and the other to the N . There are two good Roads and fandy Bays to the fouthward of this Ifland, lecure in S.W. and W. and N.W. and wortherly Winds.

A great white Tower, $;$ I.s. S. of this Ifland, flands on the Main of Sardinia; and there feems to be a good lindy Bay under it as you fail by ; but when you come nearer, it is bur a wild Road.

There is alfo a high and barc Point of Land lying about 3 Ls. to the northward of this ifland; and about 3 Ls. to the fouthward of it lics mother S.W. from you, being allo a bare l'oint of Land, but high.

From the northermoft end of Surdinia, abour + I.s. S.E. lics the Ifland Talara, from the Land a precty diftance, being high and flat; and a high Hill lies N. of it abour Musker-dhor off, by which the N.E. cnd of Sardinia is always diftinguilh'd at Sca.

Alfo ; or 4 Illands more lic to the northward of it ; fo that much broken Land lies at the N. end of Sardinia.
Behind thofe Illands feems to be many fair and good Bays, where they fuppofe are good Roads; but they lie our of the way, and no Ufe is made of them.

## l of Sicily, from the Harbour of Mellina by the North. o, Trapano, and about to Cape Paffaro.

Id fandy Ground, out 3 I.s. Touthhe Bottom of the Sicily, having a eed not take any c Shore on cither y the City, and rs to Scaward; anchor allo withiround.
of Mcflina from cp near the Coalt for the Current e: And contrayward, muft kecp

If you are coming from the northward of Sici!'s, and bound in for Trapano, keep the N. Point at a hundfome dint. then haul up cafterly, and anchor where you pleate, off of the Town, ${ }^{111} 4,5$, or 6 Fa. Here you are fecure from all Winds, that is to lay, from the N . Wind by the Land, from wetterly Winds by the Ifland, and from foutherly Winds by the Shoals of the Salt-Ponds; fo that it is allone as if you were in the Haven, or under the Mole heads.

Thote Shoals lic ${ }_{3}$ or ${ }_{4}$ Niles off at Sca from the Road; the Ground is unceen, and fill of Holes, to that you mult ftand no nearer than 7 Fa .

The Water rifes about a Fathom or fomewhat more, with a N.W. Wind, but not to much in calm Weather. A s.S.E. Moon makes high Water.
From thence to Marifilla the Courle is S. wefterly, dint.
 HE Point of Mc!fima is low Land, and Candy Ground, on which ftands a Light-houfe: About 3 l.s. louthward of this Point lies the City at the Bottom of the Harbour, 'tis the beft Haven in Sicily, having a lares Mole. Thole that would go in there, need not take any Pilor, or fear any thing, but lail clofe along the Shore on cither fide. You may come to an Anchor clole by the City, and me or to the Mole-hcad, with your Anchors to Scaward; there you lic fhelter'd in all Winds, you may anchor alfo without the Haven if you think fit, it's all good Ground.
'Thofe that would hail thro' the Vare of Meflima from the fouthward, or eaftwards to the N. muft keep near the Coaft of Calalyiz, or the main Land of Italy, for the Current commonly fets to the northward on that Shore: And contrayWhe, thofe that would hail thro' to the fouthward, muft kecp near the Inland.

But this niuft be known and oberv'd, That the Current on the Siciliull fide runs fometimes with fuch a force, that it is as ficrec almoft as a Mill Stream, elpecially the Flood; io that thole who go in there in ftill calm Weather, can hardly get out again, and therefore avoid it.

The Fare or Vare of Mellina lies extended S. by E. and N. by W. about io Ls. From the Point of Megina to the Point of A'ehallo, the Courle is W. by S. gor roL. Under the Poine of Miclafio there is a good Road, and lafe riding.

From the Point of Mclafio to the Point of Salanto, or to Ca'm Donserbrio, the Courfe is W. by S. 29 Ls. Clofe by romet S.alm:to lics a great Rock, upon which tands a great Iight-houfe; and caltward of it is the Bay of Salanto. There is good Ground all over the Bay, and good riding in toutherly Winds; but the N. and N.E. make a foul Shore.
W. of r'uint Salanto lics a ercat Creck about 3 Ls. long: In the Bay opens the River of Palermo, thofe that tail thithermult kecp weftivard right with the Haven, and anchor behind the Head or Mole with two Stern-fafts on the Mole, and an Anchor to Ceswast, where you lic in 6 Fa. Water, fhelterd in all Winds.

Caper ac Gallo is the lant Puint in the northern Coaft of the liland, it lies diftant from $\%$ alomo ; or 4 Is.

From Cape de Gallo the Land falls off S.S.W. to Trapano; the Courfe is W.S.W. diit. is Ls. The City of Trapanolies on a finall Point of Land, and ftretches out from the W. end of Sacily W.N.W. Beween them liesCate de St. Vite, dift. 5 Ls. Under the E. fide of Cafer de Vite is a deep Bay and good anchoring.

I hole that come to the weltward of the Ifland, and would hinl to Trapary, muit theer E.S.E. till they come to a little Hhad whereon llands a Cafte, call'd Colymbiere, then keep to the foubward of the Illand, aud anchor between it and the ciry lia'aro in 5 or s Fal whare they may lie very well in anot Winds.
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## Trapano, and about to Cape Paffaro.

fandy Ground, $t$; i.s. YouthBottom of the cily, having a 1 not take any hore on cither the City, and to Scaward; chor allo with. und.
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## he Current on

 c, that it is as lood; io that can hardlyS. by E. and Icljina to the $1 \circ$ L. Under 1 fafe riding. ialanto, or to s. Clotic by tands a grat lanto. There g in foutherly

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to Trapano ; apanolies on he W. cud of ite, dift. 5 Ls. ay and good d, and would ne to a little then kecp to n . it and the very well in

If you are coming from the northward of Sicily, and bound in for Trapano, keep the N. Poine at a handfome ditt, then haul up cafterly, and anchor where you pleafe, off of the Town, in 4,5 , or 6 la. Here you are fecure from all Winds, that is to lay, from the N . Wind by the Land, from wefterly Winds by the Illand, and from foutherly Winds by the Shoals of the Salt-Ponds; fo that it is all one as if you were in the Haven, or under the Mole heads.

Thofe Shoals lic ${ }_{3}$ or 4 Miles off at Sea from the Road; the Ground is uncren, and full of Holse, to that you mult ftand no nearer than 7 Fa.

The Water rifes about a Fathom or fomewhat more, with a N.W. Wind, but nor to much in calm Weather. A S.S.E. Moon makes high Water.

From thence to Marfalla the Courle is S. wefterly, dift. about 3 Ls. and from Aharfalla to Marfire, it's about io Ls. S. byW. The Land is low to the Watcr's Edge : and with the Wind off Shore ftand no nearer than 10 or 9 Fa . becaufe of Overfals.

To the northward of Sicily lic a Clufter of Iflands, calld by the Sailors the Lipari I/lutuds, becaute Lipari, which is one of them, is the chicf Place of Bufinefs; but they have all Names feverally, as the Ifland of Stiomboli, Lipart, Sallna, Fillicur, Allicur, and 'ojticia. The Ifland Stronboit finokes continually, and is a Sca-Mark for all the reft; it lics from Mel/ita N.W. If you would fail from the Fire-Boat of Mel/ina to Naples, or Gaicta, and tail NW. you will hit exactly with stromboli. Near the Illand I/chi.u under Strombo!i is a good Road for wefterly Winds.

Lepari lics from the Point of Mefima W.N.W. is L. and from the Point of Sifalle N.E. by E. 20 L.s. to the weftward of which lies Fillicur and Allicur.

The Ifland of Allicur and the City of Palermo lic S.W. by S. dift. ${ }_{15}$ Ls and ${ }^{\circ} \mathrm{f}$ icica lies from Palermo N.N.W. 17 Ls. and from Cape de Gallo N. wefterly is Ls. On the Illand of 'Q/fica ftands a little Church; and there is good riding uear the Land jult before the Church.

Tjffica and the Ifland Maritimio on the W. Coaft of Sicily. lic N.E. and S.W. 22 Ls.

There are two large Illands befides this of Maritimio, and fome finall ones, which lie all at the W. cnd of Sicily, and which are all very high Land; their Names are Fieregtnatio, and Lececnzo. The W. and of Sicilv is alfo very high, by which it may be known at a great dift. lome tiy it is lecu to Cape Bona near Carthage on the Coath of Africu.

The Itland Alaritimio is the weftermoft, and lies W. from the W. end of Sicity 5 or $\sigma$ Ls. it is certainly the higheft of the three, and in cic.ar Weather may be feen 16 l.s. off when to the northward. Leetnzo is the northermoft of them, and at a dift. makes like two long Hills. Varagnaio is the fouther.
me't

## Sailing Diretions for the Ifle of Malta, and the

moft and largeft, and hath much low Land about it ; on the S. end of it Itands a Caftle, and on the low Land a Houfe, which are both Sea-Marks, as well to know the Ifland by, as to guide Ships in, to the adjacent Ports of Marcella and Mazara. This inland is very uneven and ragged, and may well be known by it. They that come from the S.E. Point of Sardinia, or from Cagliari Bay, and tail E.S.E. and S.E. by E. thall be fiore to fall to the fouthward of the aforefaid Iflands, and to the northward of the geaclls, and fately go between them; allo with this Courfe you tall to the northward of Malta.

The City Trapano lying on the N.W. Point of Sicily, from thence to Point Mazara the Courte is S. by W. io Ls. Between thefe two lies the City Marcella, 4 Ls. from Trapano.

FromPoint Mazara to Cape Leacota the Courfe is S.E.by E. 23 or $2+$ Ls. About 6 Ls. E. from the W. Point lic two long Mountans at the Water-fide ; the caftermoft is ragged and uncven: Under theic Mountains lies the City Xica; and calt"ard of thefe Mountains the Land is all along very high and hilly; but weftward near the Water-fide it is plain and even, and the more wetterly the lower the Land.

Fifteen I.s. from the Point of Mazara lies the City of Sergento, feated on a high Hill, very beauriful in Profpect; over which you fee a ftrong Caftle. On the W. of this City is a Jow tquare Caftle under an old whire Cliff, where are fimall Rocks which make a Mole: And here the Ships load their Corn for Malta.

From Mazara to Leacota the Courfe is S.E. by E. ${ }_{2}{ }_{3}$ Ls. and from thence to Cape Samaris the: S. Coaft of Sicily reaches E.S.E. is Ls. and from thence to the S.E. Point, or Cape Yaffaro, the Courfe lies E. 17 Ls. Cape Paffaro lics in Lat. $36.4^{8}$. and is the fartheft Point of Land caltward in the whole Illand, facing towards the Gulply of Venice and the Coaft of the Moreca.

Cape Paffaro is Land, having a gre firft you fee the C but it's the firm La of this Cape the I what mountainous there lies another bears 4 or 5 Ls. N W. then the high N. from you. Th far from the City Weather you may the S. Coaft of Sic and this Mountain forth ; the Smok well known by its caftern and fouther

Near Cape Palf:a Ground is very fo your Cables will Anchor.

From Cape Pall call'd S'aragofa, th to Me/fina the Cou is already given ho Paflage is call'd th the Thorow-Fare, Paffage into the $B$. Conftantinople is c : length about io L ing againft the Bay $g^{n} / f a$; from when the Courfe is direct

## Sailing Diretions for the Ifand and Channel of Malta, African Coaft.

 Wenty four Leagues from Cafe Pallaro S.W. lics the llland of Malta or Maltba; and between Malta and Cape Bona on the Barbary Shore lic the Mands Panetalaria, Limofa, and Lampidofa. Tantalaria lies from Cape Boma E. by S. and E.S.E. 16 Ls. and Lampidofa lies from Pantalaria S. by E. 28 Ls. In Lampidofa is a good Road, where there is frelh Water and Provifions to be had, and dafe riding from northerly and N.W. Winds.

Limofalies from Lampido $\int_{a}$ N.N.E. io Ls. From Pantalaria to the Ifland Goza the Courle is E.S.E. 37 Ls. and from 'Pantalaria to Cape P'Paljaro it's E. and E. by S. 55 Ls. The Ifland (iozalics at the W. cud of Malta, upon which ftands a tlat Tower near the Water-fide, being even Land all along between Coza and Malta. There are feveral fimall Illands, which are alto even and llat, but without People or Buildings, except a few Hutts for the Herdfimen who keep Cattle there; by thofe Hutts jou may know the Inands.

The S.W. fide o Point N.W. and N the higheft in all $M$ from rhis Point li caftward, and $M I a$ ry fhort and even. Land, like to Doz bout a L. off, you The $N$. fide of $\Lambda$ E. by S. and E.S.E If you would make a Signal, a good anchoring in to 18 Fa. but as it but either purfue they can.

Cape Paffaro is the S.E. Cape of Sicily, a low Point of Land, having a great Light-houle upon the Point of it. When firft you fee the Cape, then this Point icems like a low Ifland, but it's the firm Land, as you will aftewwards fee. Northward of this Cape the Land of Sicily begins to be high and fomewhat mountainous; but even to the northward of the Cape, there lies another low Point of Land: When this low Poine bears 4 or 5 Ls. N. by W. from you, and Cape $T_{\text {Paffaro S.W. by }}$ W. then the high Volcano of Mount Atina, or Gibello, lies due N. from you. This Mountain is exceeding high, and lies not far from the City Catanea, a little within the Land: In fair Weather you may fee it all along the E. Coalt, and almoft all the S. Coaft of Sicily. This high Land is cover'd with Snow, and this Mountain continually fmokes and fomerimes flames forth; the Smoke feems like a great black Cloud: It is well known by its Height, and is a noted Sca-Mark for all the eaftern and fouthern Coaft of Sicily.

Near Cape 'Paffarolic ${ }_{3}$ or 4 Iflands; and off this Cape the Ground is very foul; tnerefore you cannot ride here, for your Cables will prefencly cut, and you will lofe your Anchor.

From Cape Paffaro to Syracufa, corruptly by our Sailors call'd Saragofa, the Courle is N by W. 9 Ls. From Saragofa to Me//ina the Courfe is N. by E. about 26 Ls. A Defcription is already given how to go in ar the Haven of Meffiza. This Palfage is call'd the Vare or Fare of Melfina, which fignifies the Thorow-Fare, or Paffage, or Streight of Mefina: as the Paffage into the Baltick is call'd the Sound, or the Paffage to Conftantinople is call'd the Helle/pont, and the like: It is in length about io Ls. rcaching in S. from Me/fina to the Opening againft the Bay of Catanea, or the City and Port of Allguffa; from whence to Cape Spartavento or to Cape Paibiro, the Courfe is directed as above.

## el of Malta, and the IJlands adjacent on the n Coaft.

The S.W. fide of Malta ftrctches from Go $\approx a$ Ifie to the S.E. Point N.W. and N.W. by N. 14 or 15 Ls. The S.E. Point is the higheft in all Malta; and about half a Lcag. W. or W.by S. from this Point lics a round high Rock : Coming from the caftward, and Malia bearing $N$. from you, then it appears very thort and cven. The S.E. end of Malta hath much white Land, like to Dover, but not Chalk; and when you are about a L. off, you may fee on that white Land a white Church. The N. fide of Malta trends from Goza to the N.E. Poine E. by S. and E.S.E. I? or It Ls.

If you would go into the Harbour of Malta, you muft make a Signal, and Pilots will come off to you. There is good anchoring in the Road of Malta betore the Port, in 15 to 18 Fa. but as it is in the open Sca, no Ships ride long there, but cither purfue their Voyage, or enter the Port as foon as they can.
 Wenty four I.cagues from Cape Pafiro S.W. lies the Illand of Malta or Maltba; ;and betwecn Malta and Cape Bona on the Barbary Shore lic the Inands Pantalaria, Limofa, and Lampidofi. Pantalaria lics from Cape Bona E. by S. and E.S.E. 16 Ls. and Lampidofa lies from 'Pantalarial S. by E. 28 Ls. In Lampidofa is a good Road, where there is feclh Water and Provifions to be had, and fafe riding from northerly and N.W. Winds.

Limiof filics from Lampidofa N.N.E. 10 Ls. From Pantalaria to the Iflund $G a z a$ the Courle is E.S.E. 37 Ls. and from 'P'antalaria to Cape P'Palfaro it's E. and E. by S. 55 Ls. The Ifland (ioza lics at the W. cnd of Malta, upon which ftands a that Tower near the Water-fide, being even Land all along between $G_{0} \approx a$ and Malta. There are feveral fimall Illands, which are alto even and flat, bur withour Pcople or Buildings, cxecpt a few Hutes for the Herdfinen who keep Cattle there; by thofe Hutts jou may know the Inands.

The S.W. Point N.W. a the higheft in from chis Poin caltward, and ry fhort and Land, like to bout a L. off, The $N$. fide' $o$ E. by S. and

If you wo make a Sign: good anchorin to 18 Fa. but but cithcr pu they can.

## Sailing Directions for the Soutb and Eaft Coafts of I

 of the wibole Adriatick Gulph; with the Coaft of inclufive: Alfo the Jflands in the Ionian and EgeanYtaw A P E Spartarento is the fouthermof Point of Italy,㓪家 after you are thro' the Vare of Meffitha: It lics oppofite to Cape Paffiro in Sicily. The Courfe to it from Palfero is N.E. northerly, dift. $3_{2}$ Ls. and from Spartavento to Cape Eorfano N.E. by N. 3 to 4 Ls. thence to Cape Stillo 10 Ls. N.N.E and from Cape Stillo to Cape Colonni N.E. by E. $3=$ Ls. Again from Spartavento to the City and Port of Tirurto N. by W. 30 Ls. all which contain the whole breadth of that part of Italy calld Calabria, from S.W. to N.E. being 216 Miles in Iength.

In all the long fipace between in this Run you have no place of Note but Taralito; indeed the Coaft is full of fmall Crecks and Bays, where Ships may on occafion find fhelere : but none of our Surveys give any other Deffription of them than in general, as is licere alfo done.

From Cape Colonni to Cape St. Maria is 24 L. N.E. northerly; and W. from St. Maria lies the City of Gallipoli dift. ahout ${ }_{3}$ L.s. W. of that Port are feveral good Roads, where you arc thelter'd from S.W. S.E. and N.E. Winds: There are time Iflands lying thwart the Mouth of the Haven of Gallipoli to Scaward; if you fail for the Road, you muft keep without thole llands, for the Road it felf is without them : there youmay ride ealy and fate in view of the Haven, and with. out the Trouble of going in, or coming within Command of the Cutles, which for good reafon the $E u$ gli/b Ships uled care-
fully to avoid warn'd.
If you are $r$ things, then $t$ for the Parfage:
From Cape Ls. This Cap the Adriatic S at Otranto fect N E. Winds bl

The firt Po Gulph is Bru Mouth of the c!ean Strand, in what depth the Haven, wl

There is a Haven ; if yo Caftle, for th many Rocks, rous : and yct kecp clofe alo ven, and then are part all the

## Ican Coajt.

The S.W. fide of Malta fretches from Go¥a Inc to the S.E. Point N.W. and N.W. by N. 14 or 15 Ls. The S.E. Point is the higheft in all Malta; and about half a Leag. W. or W. by S. from this Point fics a round ligh Rock: Coming from the caftivard, and Malta bearing N. from you, then it appears very flort and cven. The S.E. cnd of Malta hath much white Land, like to Dover, but not Chalk; and whin you are about a L. off, you may fec on that white Land a white Church: The N. fide of Malta trends from Goza to the N.E. Point E. by S. and E.S.E. 12 or $I_{4}$ Ls.

If you would go into the Harbour of Malta, you muft make a Signal, and Pilots will come off to you. There is good anchoring in the Road of Malta betore the Port, in is to is Fa. but as it is in the open Sca, no Ships ride long there, but cither purfuc thcir Voyage, or cnter the Port as loon a: they can.

## ft Coafts of Italy, the Coafts of Venice, and

 the Coajt of the Morea to Cape St. Angelo an and Egean Seas.fully to avoid; and for the fame Reafons Strangers ought to be warn'd.
If you are refolv'd to go in, and are fecur'd againft all other things, then take a Pilor to carry you thro' among the Inlands, for the Parfages are very difficult.

From Cape St. Maria to Cape Otranto the Courfe is N. 9 Ls. This Cape is the northermoft Point of the Entrance into the Adriatic Sea, or the Gulpho of Venice. There is a Haven at Otranto fecurc from S. and S.W. Winds; but northerly and N E. Winds blow right in, and bring in a foul Sea.

The firlt Port on the Coalt of Italy within the Adriatick Gulph is Brundif, formerly Brundufium; it lies from the Mouth of the Gulph N.W. by W. I3 Ls. 'ris all the way a c!ean Strand, with good anchoring in a hard fandy Ground, and in what depth you pleale: 'tis the fame under the E. Point of the Haven, where you are fafc from W. and S.W. Winds.
Therc is a Caftle on the W. Point of the Entrance into this Haven; if you would go in, you muft keep clofe under the Caftle, for the E. fide of the Channel is foul Ground, with many Rocks, whereof fome are under Water and very dangerous: and yct you need no Pilor, having nothing to do bur to kecp clofe along by the $W$. fide, till you are within the Haven, and then come to an Anchor where you pleafe, for you are paft all the Rocks.

## Directions for Sailing on the 1

from Sirmaify to Bari the Courfe varies; to Monopoli a noted it is W.NW. io Ls. and thence to Bari to Ls. more; the Courle W. by N.

Buri is a large City, fitmate clofe to the Watcr's Edye, and has a very good Haven, but the Entrance is difficult and fill of Rocks; and even the Road too is but little known. fo that a Stranger thould be at the trouble of a Pilot betore he comes to an Anchor: Many Enslif/ Ships ufe this Port, and therefore 'tis needful to warn them to keep off, or ride at a lufficicat diflance, and make a Signal for Pilots.
W. From Bari 6 l.s. lies the City of Borletta, where the Road is better, and you ride before the City very fafe in 8 to ${ }_{9}$ 「1.

From Berletta the next place is Cape Icfice; the Courfe is N.W. by N. and N.N.W. is L.s. From Monopoli to Cape $V_{C}$ : twe the Courle is N.W. by W. 23 Ls the difference is occafioned by the mevennets of the Coaft, full of little Bays, and loints thrufting out into the Sea.
it thoud be oblerved here, that at the Entrance into the Auditic (itt!, which fide locrer you are bound to, you fhould hecp the caitem Shore at firft for the Gulph gocs 111 almof N. and S. at Icaft the Channel or Fair Way lies io : intdeedater you are enter'd, you vary the Courfe as your Voy. ace requires; if you are bound to the Coaft of Italy, you mult come to a N.W. Courfe, the Italian Shore trending away to the $\therefore . W$. and N.W. by N. all the way from Otranto to Revenaic; except that at Cape Veflice, and the Shore from Point Ferma to Aicona, there the I.and ftretches out N. and N.N.W. but then falling off again, returns to its former Courfe.

Alio it is to be oblerv'd, that in all this part of the Gulph, the Current fets gencrally to the fouthward: for as this whole Gulph is in the nature of a Bay, having no lamage any other way; to the many great Rivers which flow into it, as the Po and the Ahtie in particular, with abundance of Rivers out of Ifiria, (iontia and Dilmatia, mult of necelfity make a great Cursent downward.

Add to this, that the northerly Winds, which the Italians call Tiamonaime, blow of conftantly as well as violently, that when thay fet in, no Ships can ftir beyond Mount Augclo; fi, fat indeal they may lead it up, the Coaft falling away fomething to the wettward, but there the Land turns again, and puikics out to the north, and then 'tis not to be donc: Therefore Ships bound to Venice muft keep as much to windward as polmble, that is, they muft keep the Coaft of Dalmatia aboard, and run as far to the northward as they can; and then they may lead it away to Venice as we fhall fee prefently.
between Cape Rary and $V_{c}$ ftice is a large decp Bay, oceafion'd by the Land which makes the Cape of $V_{\text {eftice }}$ rhrufting out to far into the Sca northward, fo that with the Tramontane Winds there is no weathering Cape Veftice: Thercfore Ships bound farther up the Gulph, fhould never come nearer Aons:olz or Rary, or any Port on this Coalt, than Otranto, but fland away to the $N$. as is faid before in good time.

About this Bay, between Barry and Veftice, lic the fmall

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Monopoli a noted Port for Safety: it lics in a Bay, and you have if to more; the

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Bay, occace rhrufting he Tramon-
Therefore come nearer an Otranto, imc.
ic the fimall ${ }_{15}$ Fa. in the Road within half a $L$. of the Shore, but 'tis fott Ground, and open to cafterly Winds; which as they blow right in, bring a grcat Sea into the Bay; and the Ground being not a good holding Sand, you may be in dauger of going athore.

From hence to Aucoma the Coaft bears a litele out into the Gulph, and you mult ftecr N.W. northerly: Here is a Mole, and within it a good Haven, flhelter'd from all Winds whatever, but you muft call for a Pilot to bring you in ; within the Mole-Heads, at the N. Point of the E. Head, the Pier turns about W. and makes a Hook; and upon the cad of the Pier there is a large Tower or Pavilion, with a good Battery of Guns under the Pavilion; and within the Battery the Ships ride very well fecur'd, and have 7 to 8 Fa . within a Cable's Jength of the Shore.

From Alucona to Synagaglia the Courfe is W. by N. S L.s. Here they have a little River. where fimall Veffels may ride, but the great Ships ride under the Mole-Head, which is very good, and where they are well fecur'd.

From Antona to Rimini, call'd by our Sailors Rimano, is 21 Ls. the Courfc N.W. by W. and W.N.W. 'tis fituate on the River La Mareccia, formerly calld Ariminus, over which the Brude is of Marble: fimall Ships may go into the Mouth of the River up to the Bridge, but larger Veffils ride under the Cintle, where they have 6 to 8 Fa but open to N. and N.E. Winds.

From Rimini to Ravenna the Courfe is N.W. by W.s to 9 I.s. The Haven hace, nuce fo famous, is now quite choak'd up, and the Sea is setir'd from the Land, fo that they have no Port at all ; yet there is a good Road under the Point or Cape N. by E. and N.E. from the City, where the Ships ride in 9 Fa . Water.

Berwecn the'e two Cities the River Pifatello, formerly call'd the Rubicon, falls into the Sca, making a finall Haven, but with a Bar, and only fit for Veffels not drawing above 8 or 9 Foor Watcr.

Farther in the Gulph, N.W. by N. from Ravenna, dift. 5 Ls. ftands the Pope's Sca-Port of Commaccio, a place of little ule in Navigation, only for Fifhing Vcficls and other fimall Craft, for the Haven is not able to receive Ships of Burden.

On this fide Commaccio, the moft foutherly Bocca del PO, or Branch of the great River ' $P$ 'o, opens into the Sea , and fome $V$ effels go in there, and go up to Ficrara and Bologha; bur no Ships can go up, and thofe that ride near it muft have a Pilot, for the Current is fo violene that no Stranger can fir there.

From Commaccio to Volano is + Ls. N.N.W. Here comes in another Arm of the River 'Po, and here is a good Harbour made by the faid Branch; bur the Frellics are to violent, ofpecially in theWinter, by the great Waters from the Mountains and Lakes anong the Alps, that the Sands in the Port often change, and are fo uncertain that no Stranger can go in without a Pilor.

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berwen Cope Rary and $V^{\prime}$ eftice is a large decp Bay, occafion'd by the Land which makes the Cape of Veflice thrutting out fo tir into the Sca northisard, fo that with the Tramontane W'inds there is no wearhering Cope Veftice: Therefore Ships bound farther up the Gulph, fhould never come nearer Nicwot or Bans, or any lort on this Coalt, than Otramto, but hand away to the $\mathbb{N}$. as is faid before in good time.

About this Bay", between Barry and $V$ Cftice, lie the fmall Sorts of Manficionia, Vifonti, and Monte St. Angelo. This Woate Auselo runs our N as above, making part of the Cape 7 Thife; it is a high Mountain within the Cape, and the firtit Ind youmake to the weltward, after you are thro the Entratce into the Gulph: Here you have good anchoring in wetterly and northerly Winds. 'This Bay of Manficdonia is the only Shetrer this Conft affords in cafe of northerly Winds; for here you havedecp Water, whereas on all other parts of the Coalt the Shore lies that off, and you have not above 7 to 1c Fa fors or 9 Ls. from the Coaft.

Cff of this great Point or ipromontory of Land you have fercral thands in the Sea, at a large diftance from the Shore, as Gymiat, Simta de Maria Trimidad, Caprara, Galitia, St. \%aroband elderelia. the moft northerly of all the reft. From Caplefice to Cimmaf you mult fteer N.W. by N. 9 Ls. it bears S.S.E. from St. Maria; Ls. 'tis a fmall flat Inand, and is not to be feen till yourare within; to 4 Ls. of it. From the Cupe to St. Maria Trinidad is it L.s. the Courfe N.W.
N.W. from Cape liftice, fomething welterly, lies the Port of Teinore: 'zis upon the Opening of a fimall River, and liss about : Ls. withm the Land: You will want a Pilot to carry you in lice, the Chamel in the Mouth of the River being ofton thifting and umertain.

There lies a large Bay a I. to the E. of this Port, between it and the Cave, where there is good Riding, but no thelter from the Tramsutane Winds, which blow right in. On the Point of this Creck, clofe to the Strand, ftands a large Tower of Senne, which is feen far at Sea; it teems to be a Lighthoufe, and is a very utful Mark to know the Anchoringplace or Road by ; but when you come to it, 'tis only a large lualding for Ware houles, and by it is a key, where you have © io - Fa good hard Sand.

From Cape leffice to Ortotia is ab Ls. the Courfe, as on all this Conft. lies N.W. or N.W. by W. There are no Places of Sote between but thofe mentiond above; neither is Ortona

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From I'olano the Coaft gocs away N. and N. by E. the Land bearing in upon the Sca all the way, dift. 17 Ls. to the Entrance into the Port of Malomon. From Alucona inded the Courle borrows of the W. and you ftecr N.N.W. wefterly, and N.W. by N. the dift. 53 Ls. When you are in tice Fair Way dailing for Venice, Mid-Channel of the Gulph, you have not above $23^{\text {to }} 2_{2} \mathrm{Fa}$. But if you keep neareft the caftern Coalt, that is, within to to 11 Ls. of it, you will have to to + ; Fal. and when you come within the like diftance from the City of Venice, you will not have above 16 to 17 Fa .

When you come within 16 to ${ }_{17} \mathrm{Fa}$. you will fee the Hills bchind the City of Vcnice, and perhaps St Mlark's Stecple or Tower; and you may go boldly in, be it by Night or Day, and come to an Anchor in 6 to 7 Fa . If you have Day-light, run in to the N of Malamoco, and anchor in 8 to 9 Fa. that indeed is the beft Ground, and a very good Road.

The 117and Alalamoco lies in the Mouth of the Entrance into $/$ cuice; it ftretches N.N E. and S.S.W. in length between + and 5 Milcs. To the S. of this Ifland is the Entrance into the Port, and there the Ships lie to make their Report when they come in, and to clear when they go out; 'tis an excellent good Road and Harbour. There is another Harbour to the northward of the Ifland, where the Gallies and fmall Ships, and moft of the Coalting Veffels lie; but Malamoco is the chief Harbour.

If you are bound in for the main Port of Malamoio, and come from the northward, that is, from the Coaft of $I f \mathrm{t} \cdot \mathrm{ia}$, kcep along the S. Shore, till youbring the Block-houles and fome Trecs on the Land of the other fide to bear with one another; then ftand over, and run in clofe by the Heads or Mole: this going in lics W N.W. and W. by N.
N.B. There is very lietle Tide in all the Gulph, and at Fernice it docs not rile above 3 Foot at the highelt Spring. Note Allo, that a N.W. Moon makes the higheft Tide.
If you would go farther in than the Road of Malomeco, take a Pilot there.

## Sailing Directions for the Soulh Coafts o

S. of limece, among the Rivers and lliands, lies the City Chofor, dilt. 7 L.s. A little to the S. of the Entrance into fonfice lies a that Shoal; you are in great danger of it if you mutis the Entrance : for the Winds blowing there, as the Current runs, you will find it very hard to recover the Harbour : There wasa fout Emslifh, Ship lott there once, by that very Miltake.

From Fenice to the N . we have no Survey of the Coaft, tho there are feveral Rivers and Bays, in which are good Roads, and which are navigable far in, and particularly the Coaft of Primli, the new imperial City and Port of Triefte, where there is a large Bay calldd the Gulph of Triefte; as allio the City of yarchen without the Gulph, and fome others, where good Shipsotengoin; but as neither the Englith or Gutch, have any Trade in thote Ports, our Pilots have not thought them worth ther Obicrvation.

From /'ince to Rovigno is crols the botrom of the Gulph; the Courle is E S.E. 25 Ls. There is a very good Harbour at R/2inno, tus made fo, chiefly by fome fimall ithands which lie betore the Mouth of it, upon one of which fands a long Pole like a Must ; that Ifland in pruffing thro' flould be left to the weftward: bur there are fone Rocks on the way between Ro. zigno and Parenza, which mult be carefully avoided, for many good Ships have mifearry'd on them. The Haven of Rozigno lies in E.N.E.

The great Mountain Caldero is the Mark off at Sca to know the Port by ; it is to high, that you may fie it in clear Weather within to Ls. of Mlalamoce, where you may fee Caldero on one hand, and the Tower of St. Mark at Veniec on the other, and to be guided cither way, for they lic E. by S. and W. hy N. of one another.

The next Place is the Cape Promomories, which lics S.E. or S.E. by S. dift. 6 Ls. This is not a City, but a Haven between two Kocks, which lic off of Cape d. Wella. Between the Rock and the Sloore lies a great Shoal, but there is a Channel between, and there the Ships ade, the deepeft Water being ia the Chamel; you muft go fo near the biggelt Rock, that you meght tots a Bisket Cake ou Shore ; the Rock is Itecp, and all fecurc. Half a L. off from this Rock is another Shoal S.E. from it, where is not above 8 to 9 Foot Warcr, you muft heave the Lcad for it, which will foon dilcover it, tor you have 16 Fa . jult before.

From this Cape dift. 22 Ls. lies Infila Longa, or Long Ifland; the Courfe is S.E. eafterly: Between them is the Illand Sanfiso at the S. end of the Ifland Offero; there you have an excellent Road, elcan Ground, and what Depth you pleafe, being tecure from all Winds.' There is a foul bank indeed which lics N.W. of the Ifland, dift. fomething lefs than a L. but as there is Water enough over ir, the only danger is of lofing your Anchor, if you ilhould attempt to ride there : but 'tis clean and good Ground both within and without it.

Within the Ifland of O/fero lies a Haven calld Porto Monigo, where there is a good Road as to the Winds, (being well incelter'd but the Ground is foul : And E. of Sanfigo dift. 3 Ls.
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## South Coafts of the Culph of Venice.

caute there are divers Roads and anchoring Places among them ; as the Illand of St. Atudrews, Mellofello, Pomo, Ciactle, Cafrola, and others.
N. B. The Entrance of Malamocs and the Ifland Lifal lie N.W. and S.E. in a traic Line, dift. 76 l.s.

From Lifia to Ledfina is 6 Ls. S.E.. This is a very litele, but fecure Haven, nor is it able to receive above three or four Ships of burden at a time: The City lies clofe to the Water's.edge within the Haven: You have 12 Fa. Water when you are un, but the Rocks and Illands lic to thick, and there is fo litele room to ftir, that you fhould take a Pilor both in and out. But the beft Haven among all thele Inands is Porto 'Palormo, lying not above one L. from the Haven of Leffina due N. and upon the lame Ifland ; the Entrance is between two Nountaias, and when you are in, 'tis ftill Water like a Mill pond, no Wind can diflurb you; the Ships lic broad-fide to the Shere, with Head-fatts and Stern-falts, and no need for Anchors on Cables. There is allo mother fmall Haven between the lalt two, which is calld leorto Ciego, where you fic moor'd to a Rock, and tafe from all Winds. There are many fimall hlands lying before the Entrance into thefe Havens, and you may anchor among them, but 'tis not adruable, for the Ground is gencrally foul, and the Water very decp, at leaft on $_{3}$ to ${ }_{35}$ Fa.

There are to many good Roads and Havens among the other larger Iflands, that you need run no Hazaids in thele doubrtu! Places: There are good Roads at Torkelio, L'Asofti, Andria, b'ralfia, Corf(i)la, Porto Carbou, and miny others.
N. B. There is a litele Illand in the madle of the Gulph, call'd 'wchasofi, monrion'd betore ; 'tis dit. from Cate' $V$ effice is Ls. $N$. and from the flle of Lefia 12 Ls. S. It is very needful Strangers thould have notice of ir, it being dangerous in the night. There is alfo a finall Rock lies about a League caftward from the lland; tis dangerous, becaule it lies even with the Water, and fometines is cover'd. There is another great Rock beeween that and the Illand, but that is always above Water.
In the Illand Corfiold is the City Corfolla, a Phace of note and with a very good Haven, tecure from all Winds on that fide, lying on the S.W. part of the Ifland, and having five little Rocks lying in a Scmi-circ!e before the Entrance; to that nothing can hurt a Ship when onee it is in.

Within this lhand lies the Point of Sabioucella, and the Town of the lame Name on the S.W. Shore of it ; there is 22 to 23 Fa . Water between, and good riding, but the Paflige is block'dup with Rocks at the S.E. chid, fo that there is no pafling in or our, but with extreme hazard, unlefs you take a Pilor: The only cicar Paflage is clofe under the Main.
From hence going on S.E. and S E. by E. is the Illand Malleda, dift. 5 Ls. Here is a River and Pore; and tho the River can be but of hore Courfe, the Illiand being only 6 Ls , long, yer it is navigable a Ls and the Channel very decp. from ${ }_{3}$ to 50 Fa . Here are alto three other finall Illands, having Havens or Roads at them all, viz. st. Alasufine, yw pano, and Ifla Mc/a.

From Malleda it is 6 Ls. E. to the City of Razufa, throng'd
mente tols a bisket cake on Shore, the Kock is Iteep, and all fecurc. Half a L. off from this Rock is another Shoal S.E. from it, where is not above 8 to 9 Foot Water, you muft heave the Lecad for it, which will foon difcover it, for you have 16 Fa. juit before.

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Within the Inand of Offero lies a Haven call'd Porto Monigo. Where there is a good Road as to the Winds, (being well thelterd but the Ground is toul: And E. of Sanfigo dift. ${ }_{3}$ Ls. is the lhand of St. 'Vedro de N'izo, where there is a very good Haven: This is the moft foutherly of all the Inands, whercof this Bay is fo full. There is 10 to 12 Fa. Water in this Harbour, a clear Entrance, and you may anchor where you pleafe, to thin you nead no Pilot.

Next you cone to Lons Iflimt; there are Eeveral Rocks and Illands lie between it and thic laft mentiond lhands, and abundance more between it and the Shore; the chict of thote beween Long Iflend and the St. Pedro, is the Inland of Molato, where is allo a fine Haven call'd l'orto de Molato, where you ride in 30 to 35 Fa .

Infika Lougic is indecd, according to its Name, a Loug I/and, lying parallel with the Sisore, 30 Miles in Iengeth, and fearee two over; ftretching N.W. and S.E. There are many finall Illads between it and the Main; but with the help of Pilots you may fail between them to the City of Zara, where there is a good Haven, and the Heads or Piers come to noar that the Moteth of the Haven is thut up with a great Chain, and in cale of War with a Bomb: But it is open'd for the paying a fmall Dury, which the Palots include in their Wages, and account for to the City.

From Lous I/hand it is so Ls. to Cape Celio, where there is a tolerable Road, but no Haven: The Courte to the Cape is S.E. and from thence due E. to the 1nand of $B u a$, where indeed is no Haves, tho the Water is deep, and the Shore bold and tate; fo you need no Pilot.

From Bita you turn to the fouthward to Lifa; it is a fmall Ifland, and has a good Haven on the N.E. cnd, but gocs in S.S.E. it is dift. from Bua 9 Ls . At the W. end of Lifia is another Harbour, or rather a Road, call'd Porto Camifa; there is good anchoring, but a Wcftcriy and W.N.W. Wind blows right in: There is good riding in mont places round this Ifland, but alvays open to one Point or other.

Here are other Hlands as well without as within, which tho many of them are uninhabited, are necdful to be known; be:
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From hence going on S.E. and S.E. by E. is the Inland Mal. leda, diff. 5 Ls. Here is a River and Port; and tho the Riyer can be but of fhort Courfe, the Illand being only 6 Ls . long, yet it is navigable 2 Ls. and the Channel very decp, from 35 to 50 Fa. Here are allo three other fmall Inands, having Havens or Roads at them all, viz. St. Aulsuftine, $\mathcal{F}^{\prime} p^{\prime}$. pano, and IJa Mefia.

From Malleda it is 6 Ls. E. to the City of Razufa, throng'd with Illands and Rocks all the Courte ; juft before the Port lics the Ifland Cromma, and the Road which is very fafe and good lies betwecn; the Port of Ragnfa is known by the Church upon a Mountain behiad the City, which is feen a great way to feaward.

Fiom the Ifland Melleda to Catarro is 12 Ls. E. by S. and E.S.E. The Gulph of Catarro is the Mouth of a confiderable River, but not navigable, higher than the City; therc is a very good Road in the Mouth of the Gulph, and a Fortrefs call'd Cafte Nova; but the chicef Road and Harbour is before the City, where there is a good Haven, but you mult go up with a Pilot:
From Caflle Nova to Budoa is ${ }_{5}$ Ls. the Courfe S.E. by E: There is a good Port at Budaa, and a very good Road behind the Point on which the Caftle flands; as there is likewife at Alutonari on the fame Coaft. Six Ls. from Budua lies the City of 'Tulcigno; the Courfe likewife S.E. by E. At Dutciguo there is a Road, but no Haven; and at Valdencfo. which is juft by it, is a good Road; but there is not one good Haven on all this part of the Coaft, till you come to $\operatorname{la}$ Valona.

Next to this 「ort is the Gulph of Lodirin, where is a City of the fame Name, and a River with a good Road for large Ships, and under the Shelter of a Caftle.

Jult under the S. Point of the Gulph of Loditin S.E lies the City and Harbour of Thraz̃o. From the Mlland Malleda hither, the Courfe is S.E.by E. 53 Ls. and from Uurazizo to $V$ alona is $\mathrm{S}_{1}{ }_{17}$ Ls. This laft is an excellent Haven, there is an Illand juft at the Entrance which breaks off the Sea, and lecures it from foutherly Wiads, the Main fhelters if from nor: therly; and the Points of the Entrance, being both very bigh Land, fecure is from the E and W. fo that nothing can luare you. Herc is allo a very good Watcring place.

F: 3 m the Port of in Valona, but in particular from the ifland Sousfin at the Mouth of that Haven, 11 is is Ls. to the * S indrid

## Sailing Directions for the Iflands and Coa

1lland of Fain, off of the N. end of Corfin, the Courfe S. by E. Between $F_{\text {aimu }}$ and Corfit is a good Road, under the Lee of a little Mland calld Marlere, as allo behind the Rocks calld Frofeoglie, which lic on the fame fide of Corfin, and under the N . end of Corfu it felf; in both which Roads you have 10 to 12 Fa .

If you come in from the northward, and are bound to Cor fit, keep the Main on board, and go in by the Ifland of Serpe, which lies jult at the En:rance ; but yeu mult have a Pilot, as well for the Bay and Haven of Corfu, as for the whole Paffage between the Iflad and the Main.

The S. end of Corfit is call'd Cape Blazeo; there is a Shoal there rons off from the Point a great way into the Sca, which You mult avoid if you come from the touthward, by keeping cione to the N. Point of the Itland Pach/it, till it bears S.W. by $S$ and till a high round Mountain upon the Main thews it feit to the fouthward of the loint of Corfu, and another thand thews it felf alfo near the Main : Keep thefe all N E. by N. from you, and you may fail in with them into Corfu.

Come no nearer the Shoalings of the Sand, than from 10 to 6 Fa . for it is foul and rocky, and uneven Ground; if you will go farther in take a Pilot.

From the Ifland Fant to 'Pacib $k$ is 23 Ls. the Courfe S.E. by S. and from thence to the Ille of Ceploalonia is 32 Ls.S.S.E. There are leveral Havens in Ceploalonia, the beft is call'd Porto d'Arognflo, or Arogofioli, to the fouthward of Cape Sidero. There is a good Road behind the Inland Guardio, betore you run into the Haven, where you have 8 to 9 Fa . and the Ifland reaches E. and W. on both fides the Haven : Cape Sidero is tice weftermolt Point of the Illand; and the $W$ White $\operatorname{P}$ Point, or $\therefore p: B l a n c$, is the S. Point, and lies oppofite to the Ifland of Zant, dift about 5 Ls.

To fail from Cepbalonia to Zant your Courfe is due S. if you come from the Port or City of the tame Name with the Ifland; but if you come from the Ifland Giadiann, the Courle is S.E. by S To go into the Harbour of Zant, you muft make the N'E. Point firft ; then keeping up to it, fail along clofe by it till it comes abaft the Maft, and then go directly for the City, which you will fee before you. There is good anchoring almoft all the Way between the N. Point and the N.E. Point in 15 to 18 Fa. but when you are about the N E. Point, you ride before the Mole in 8, 10 to 12 Fa. good holding Ground, and you have 4 to 6 Fa . in the very Haven it felf, within the Heads. The N.E. Winds blow right in and make a foul Sea in the Road.

On the S. part of the Ifland, between the S. and S.E. Points, is a very large and commodious Bay, with very fechic riding in 3 to ${ }_{12} \mathrm{Fa}$. with an Illand on the S.E. fide, which breaks off the Sca and thelters from the Wind at the fame time : The Shore is full of Rocks ali about, which makes that Road the luter when you are in. The Turkifh Fleets often ride here, tho the Mlandi is not their own, there being no Forts or Battepies to prevent them.

## Pands and Coafts of the Adriatick and Iowian Seas.

the Courfe S. by d, under the Lee hind the Rocks of Corfin, and hich Roads you
re bound to CorIlland of Serpe, at have a Pilot, $s$ for the whole
rhere is a Shoal the Sca, which ard, by keeping ill it bears S.W. e Main fhews it fu, and another thefe all N.E. by inso Corfin.
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the Courfe S.E. ia is 32 Ls.S.S.E. cit is calld Porto of Cape Sidero. rdia, betore you a. and the Ifland : Cape Sidero is White 'Point, or te to the Ifland of
fe is due $S$. if you with the Inland; , the Courlic is , you mult make ail along clofe by directly for the is good anchornt and the N.E. it the N.E. Point, Fa, good holding y Haven it felf, ht in and make a
. and S.E. Points, ery feclic riding which breaks off lame time: The res that Road the s often ride here, no Forts or Batte-

Channcls in, and fome Difficultics in the Eutrance, you may avoid all by taking a Pilot at Sapienza, and the fame for the Haven of Navarin which is on the other fide the Point.

There are feveral Iflands lie off of this Bay and offethe Point, beeween which you may fail if you are bound out of the Sea to Modon ; and among them are feveral very fate Roads, and good anchoring, fuch as Venetcra, Caurera, and Sapienza it ielf, as alfo the Bay of Carama, Vitello, "fabega, and Corota. In this Space, and S. of Cape Matapan, dift 16 Ls. and; Ls. N. from Velnetica, lies the Bay and City of Coron; you will fee it at Sea as you fail by: There is a good Road under the Point a little to the S.W. of the City, and a Mole and Haven at the City, but it needs no Pilot or Defeription, for 'tis all open before it, and clear Ground.

Cape Matapan lies E. by S. from Point Sapicuza 16 Ls. 'Tis a lharp Point, without any good anchoring-ground on cither fide of it, and the Water exceeding decp, being so to 60 Fa. in fome Places. To the nothward of the Cape about 4 Ls. is a large deep Bay, where you may ride with great fafety: This is on the E. fide of the Cape, and on the $W$. fide is a great Rock about half a L. off from the Shore, but it may be Icen above Water.

The Cape is very uneven, fo that the extreme Point, which is high, looks at a diftance like an Ifland. To the caftward lies a great Bay in the way to St. Angelo, and to the northward in the Bay is a good Haven, efpecially for Veffels bound to the caftward 'There is an old ruin'd Caftle a lietle within the Land, by which the Haven may be known, elpecially by its having a Wall reaching from the Cafte to the Water's-edge. To go into the Haven, you muft lail right with the faid Caltle in the Fair Way, avoiding either Shore, for both are foul.

There is a great Rock alfo in the middle of the Entrance, but there is Water enough over it; and when you are over it, you may anchor any where in io to is Fa. The Anchor-hold is good, and you are thelter'd from all Winds. Irom this Haven so the Ifland of Serigo is 9 Ls. S.S.E.

There is another good Haven allo N. of the Point, dift. 3 to 4 Ls. Life and decp Water, as the other ; it is known by a red Point on the S. fide, and a Caftle on the N. fide of is: You need no Pilot here, but may run in directly between the red Point and the Caltle; go as far up as you pleafe, you will have 12 or 16 Fa. good hard Sand, and clean from Rocks. From Serigo to this Haven the Courfe is N.W. wefterly: In the fame Bay is the Road of Paguano, a Place much frequented by Scafaring People.

Due N. from the Cape lies the Haven of Rapa, antiently Rapini; if you wouldgo in there, 'tis needful to take a Pilot.

All this Coaft from Modon to Cape St. Aineselo is calld by the Inhelitants Brat $\sqrt{a}$ de Meyn; 'tis all the way full of Havens and Ports, and good Roads.

From Cape Matapan to Serigo the Courfe is E. by S. 9 Ls. it lies from the Main at leaft + to $s$ I.s. The Point of the Illand lies high, as does alfo, the Man beyond it; to that as
S.E. by To go into the Harbour of Zant, you mult make the N.E. Point firft ; then keeping up to it, fail along clofe by it till it comes abaft the Maft, and then go directly for the City, which you will fee before you. There is good anchoring almoft all the Way between the N. Point and the N.E. Point in is to is Fa, but when youare about the N E. Point, you ride before the Mole in 8 , 10 to 12 Fa good holding Ground, and you have 4 to 6 Fa . in the very Haven it felf, within the Heads. The N.E. Winds blow right in and make a foul Sea in the Road.

On the S. part of the Illand, between the S. and S.E. Puints, is a very large and commodious Bay, with very fecure riding in S to $1_{2} \mathrm{Fa}$. With an Ifland on the S.E. fide, which breaks off the Sca and thelters from the Wind at the lame time: The Shore is full of Rocks all about, which makes that Road the lifer when you are in. The Turkifh Fleets often ride here, tho the Mland is not their own, there being no Forts or Batteries to prevent them.

Oppofite to the Port of Zant and on the Main, is a Port and Road calld Tornefe, much ufed by Englifh Ships for lading Currants; but 'tis a bad Road and foul Ground.

Sction L.s. S.E. from Zant lics the Illand Siravalli or Stafficha: ; 'tis noted only that it may be avoided, being foul all round, and lying to low, almont even with the Water, that 'tis very dangerous, for Ships are almoft foul of it before they fee it. From this Ihand to Cape Sapienza on the Morea is in Ls. The Courfe S.E. by S. The Illand Sapienza, from whence the Cape has its Name, lies 2 Ls. farther S. and E. of the Point lies the famous City of Modon, and N. of it the as famous Haven of Nararth: If you are bound into any of thefe ?orts, you will find it neceffary to take Pilots.

All the Coall of the Morea to the northward of Zant is a fair deep Shore ; but as the Turks permit no European Ships to go into the Gulpb of Corinth, call'd now the Gulph of Lepanto, we have no need to take the Survey of it here. s Ls. N. of the Point of Modon is a very good Road, where you are fccure from eafterly and wefterly Winds, but a S. or S.S.W. Wind blows in, and makes it an uncaly Road.

As :Hodon is noted for Shipping, 'tis neceffary to deferibe it a little: The anchoring Place before it is a clean fair Strand, the Ground good, and what Water you pleale. There is a Way into the Road berween Cape Sapienza and the Caftle; but you have no anchoring till within a Mile of the Caftle, "hese you have from 10 to 20 Fa. but as there are feveral

## Sailing Directions for the Sea Coafts of the I/d North from Cape St. J

[^7], you mult make ail along clofe by directly for the : is good anchornt and the N.E. it the N.E. Point, Fa. good holding y Haven it telf, ht in and make a
and S.E. $P$ sints, cry fecure riding which breaks off lame time: The ies that Road the $s$ often ride here, o Forts or Batte-

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Due N. from the Cape lies the Haven of Rap:a, antiently Rapitil; if you wouldgo in there, 'tis needful to take a Pilor.

All this Coaft from Modon to Cape St. Anselo is call'd by the Inhabitants Bratfid d' Meyl"; 'tis all the way full of Havens and Ports, and gooa' Roads.

From Cape Matapan to Serigo the Courfe is E. by S. 9 Ls. it lies from the Main at leaft 4 to 5 L.s. The Point of the Illand lies high, as docs alfo the Main beyond it; fo that as you come againt it from the Sea weftward, it feems to be a part of the Land of the Morea.

Under the S. Point of Scrigo, on the E. fide of the Point, there is a fine Bay with very good anchoring; bring the E. Point to bear E. by S. and the S. Point S.W. by S. from you: Then you are in the beft of the Road, and have 23 Fa. but 'tis a wild Road in a S. or S.E. Wind. S.S.W. from the S.W. Point of the IMand, lying one L. from the Shore, is a great Rock call'd L'Oro, or the Egg; but as it is above Water, the Danger is the lefs. 3 Ls. off of the SE. Point lie the Dragooners, they are threc little rocky Inlands with a good Road under them, on the fide of the main Illand; they are good Marks to know the Illand by, and fo is the Inand for them. Under tlie northermoft of thote Dragooners you have 22 Fa . with a Falt to the Rock, and no Danger, being well thetterd from all Winds.

From the E. fide of Serigo to Cape St. Angelo is 6 Ls. the Courí NE.
$N^{\prime} . B$. This Inand is generally the Place, where Ships bound out of the Adriatick Gulph for Conftantinople, or any of the Iflands in the Arcbipelague, come to an Anchor for a Wind, and fo again in their Return.
$N$. B. The 1 flands of Serigo and Serigoto lie in the Fair Way between the Iflands of Candia and Cape St. Fobn Baptijt on the Inand of Candia, that Cape and Cape St. Angeto in the Morea, bearing due N . and S. dift. about ${ }_{2}$ f Ls.

## oafts of the Ifland of Crete, or Candia, beginning on thee

 from Cape St John Baptift inclufize.Candia is call'd Cape 'Paffaro in This Cape St. Jobnt there lying near rard of the Cape
it is very good. At the weftermof Point alfo, fomewhat towards the S. there lie leveral dangerous Rocks; there the Land trends away N.N.W. 4 or 5 Ls. but to the northward of Cape St. Toln it ftretches N.E. 9 Ls. till you are paft three Iflands which lie to the northward of Cape St. Jobn: One of thete Hlands

## Sailing Directions for the Coafts of the

Inands lics 3 Ls. from the main Illand of Candia towards $S_{c}$. rigo; and trom thence you may lice the Illand Serigoto, Which lics between them, bearing $N$. $\boldsymbol{7}$ or 3 Ls. from you.

When you lail by the aforefaid Inland, you may alfo fee Cape Spado, bearing N.E. from you. This Cape is a high Point of Land on the N. fide of Candia; and eaftwards from it, about 7 l.s. the Land appears like another great Cape: But that Cape is $;$ Ls. farther to the caftward, and is a high fteep Point call'd Miatlecha. Upon the W. cnd of an Illand oft of CapeSpado, where you will lice a great many Cyprefs Trees growing, there is good ridang, and good Anchor-ground, and frech Water to be had at ieveral Places with great convenience.

Betwecn Cape Mallecha and Cape Spado lies the City of Cane'd, m a decp Bay, which reaches in S.E. by E. and where there is very good anchoring for Veffels under 100 Tun.

About a L. W. by S. from Canea lics the Ifland Orula, on which there are two Cattles. On the S.E. fide of that Ifland there is a good Road, but you muft lail to the enftward of the mand to get into it; for on the S. fide there is a Ledge of Rocks reaching from the Main to the llland, fo that you cannot lail thro' to the fouthward: You may alfo anchor clofe under the Mland on the $\mathbf{E}$ or on the N . fide, for there it is very clean ; and you may lic with your Ship-fide clofe to the Shore.

When you lic in that Road, the E. Point of the Inland lies N.E and the E. part of the Inland of Candia E.N.E. from you.

A little to the weftward of Canca are feveral Rocks under Water very dangerous, fo that you mult be careful to avoid them. The Haven of Canca is not able to reccive great Ships, but Ships of a dmall Draught may go in very readily, and lie near the Shore, tho the Ground is not very clean.

Cape Mallechat or Mellacha is a high fteep Land, and may be very well known. On the E. fide of it lics Suda, or Zuda, a very fair Haven, the beft on that fide of the Illand, without which lies a Rock, and upon the Rock ftands a Caftle, near which you may ride in 12 or ${ }_{1} \mathrm{Fa}$. and but a little way off you will have 30 to 40 Fa and at fome places foul Ground too; thercfore you mult anchor under the Caftle; for if you are paft the Rock, there is 50 or 60 Fa . The Ground round about this Rock is clean and dry, but every where elfe loofe and foul.

Five or 6 L.s. to the caltward of Zuda lies the City of Retimo, where there is a very good Bay, and a Road for all fouthcrly Winds. About 12 Ls. to the caftward of Cape Mallecha Jies the City of Candia, the Capital City, (as well as the beft Port) of the whole Inland, tho the Haven is almoft like the Haven of Canca, only fit to reccive Ships of a finall Draught.

Four I.s. N.N.E. of the City of Candia lics an Inland call'd Standu; you may tee it when you are jult paft Suda, the Land being very high at Standia. Hou have 3 convenient Havens here, the weftermolt is the worlt, and there ftands a Tower on the $W$. Point; but the two caflermolt are very good Hablouns, "here youmay lic with a Faft afhore.

About a Musker fhot to the caftward of Standia lies a very high Rock above Water: allo a little N.W. of Candia lies a Point of Land calld liriskin. When the ad fnowy Mountain lears S. by W. from you, then fteer away S.S.E. till the Inand
be known, nain When you bring in your failing tr City, where yo Point of Frisk the City of Can the eaftermoft w choring and goo the Haven.

The Haven o Entrance. Com will not have abc ${ }_{14}$ Foot. On th ar the S.E. fide li the Mole, mult built, and leave on the other fid come within the an Anchor clole Molc, and 2 An

If you would fail from the Ina you will come r of which lics t them, keep near ken Rocks, whi difcern'd by a R Channel reaches between Caxo a to lail thro', and

The caftermo a reafonable high but no Anchorin

Five or fix Ls Candiu, lic 2 If thofe Iflands anc bound.

Ten Ls. to t flands call'd $C l / a$ ly about 15 Ls. clofe to the Lan

Duc E. from there lieth anot good Road. F and another low

Gofo is high Bay, and a goo and at the S.W Rock under Wa

Gofo and $\mathrm{Ca}^{2}$ Candia, lic N. other.

Thofe that go to the fouth foutherly, othe

The S. fide
be known, naimed Mount Ida, call'd by fome Mofes's Temple : When you bring that to bear S.S.W. from you, or firt make it in your failing from Standia, you will be then juft before the City, where you may anchor in 20 or 15 Fa . and then the Point of Friskin will bear N.W. the Inand of Standia N.E. the City of Candia S.W. and the outermoft part of Candia to the cattermoft will then bear E. from you; there is good Anchoring and good Ground, and from thence you may fee into the Haven.

The Haven of Candia is very narrow and doubtful at the Entrance. Coming from the Road towards the Haven, you will not have above ${ }_{3}$ Fa. and in the very Entrance not above ${ }_{14}$ Foor. On the N.W. fide of the Haven ftands a Cafte, and at the S.E. fide lies a Mole; now thele that would ride within the Mole, mult tail nearcf to the fide on which the Mole is built, and leave the N.W. fide, on which the Caftle ftands, for on the other fide is the moft Water: and as foon as you are come within the Mole, you muft luff up round, and come to an Anchor clofe under it, riding with 2 Fafts afhore on the Mole, and 2 Anchors out aftern towards the City.

If you would fail from the City of Candia caftward, then fail from the Ifland Candia, or the Ifland Standia, duc E. and you will come right on the Illand Scarpanto, to the Weftward of which lics the Inc of Caxo. If you would go between them, kecp nearcft to Caxo, for near Scarpanto lic fome funken Rocks, which you ought to beware of ; they may be difeern'd by a Rippling and Breach of the Water on them. The Channel reaches in S.E. and N.W. but W. of Caxo, which is between Caxo and Gape Solomon, the Place is wide and large to fail thro, and fufficient Depth of Water.

The caftermoft Point of Candia, which is Cape Solomon, is a reafonable high ftecp Point, with an Inand clofe by the fame, but no Anchoring thercabours.

Five or fix Ls. to the eaftward of this Cape, at the S. end of Candia, lic a Iflands call'd Cbriftianu; you may fail between thofe Iflands and the Illand of Candia, whitherlocver you are bound.

Ten Ls. to the weftward of thefe Inlands lie other two Iflands call'd Cbaldercno or Calderoni; and a litele farther wefterly about 15 Ls. lics the Ifland of Cabrcra: they both lie very clofe to the Land, no Channel fir to fail thro' being between.

Due E. from Cabrera lics a fair Bay, in which is a good Road: there lieth another alfo to the weftward, which likewife is a good Road. From thence W.S.W. 12 Ls. lies the Ifland Gofo, and another low Illand to the weftward of it, call'd Antegofo.

Gofo is high at the W. cnd ; and at the N . fide is a fair fandy Bay, and a good Road: there is good frefl Water to be had; and at the S.W. Point of Gofo, not far from the Land, lies a Rock under Watcr, which is very dangerous.

Gofo and Cape St. \%oln, being the wefternoft Point of Candia, lic N.W. by N. and S.E. by E. dift. it Ls. from each other.
Thofe that come from Cape Palfaro in Sicily, and would go to the fouthward of Candia, thould fail E.by S. fomewhat loutherly, otherwife they will not get to the fouthward of Candia.

The S. fide of Calldia is towards the W. part of it, very hidh Laud moft times cover'd with Snow, and reaches about
there is 50 or 60 Fa . The Ground round about this Rock is clean and dry, but every where elle loofe and foul.

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About a Musker fhot to the caltward of Standia lics a very high Rock above Water : alto a little N.W. of Candia lies a Point of Land call'd friskin. When the ad fnowy Mountain bears S. by W. from you, then ftecr away S.S.E. till the Ifland Stundia bears E. by S. from you, and till you get that which lies behind Point liriskin to bear N.W. and N.W. by W. from yon; then you are in the beft of the Road before Candia. Juft before Candia lics a great Mountain, which is caly to

Ten Ls. flands call'd ly about 15 clofe to the Duc E. fr there lieth good Road. aud another

Gofo is $h$ Bay, and a and at the Rock under Gofo and Candia, lic other.

Thofe th go to the ft loutherly, o The S. high Land, half way th fhows at ag when you c

Sailing Directions for the Coafts of the Morea, fro the Pafluge thro' the Archipelague, and the Ser Paffage, to the Dardanelli, and the City of Conft Naivigation of all the Coafts of Europe.


N Giiling thro' the Jisean and Ionian Scas, antiently calld the Archipelago, but by the Moderns the Archipelagn', and by the Sailors the Arches, you may take icveral Courtes, according as the Port lies to which you are bound. fuppofing you come from the Weft, or at laft touch'd at Cape St. Angelo on the S.W. Point of the Mloreat: But of all the reft of the Paffages, two are an particular the moft ufed, and efteem'd the beft Channels, being in the Seamens Language, The Fair $1 F$ ay.

1. The 1 tt, which palfes from between Serigo and Serigoto N.E. by E. after going in fight of Cape St. Angelo, ftecrs N.N.E. and then N. by E. paffing berween the Mands of Zea and Macronifi, and with the tame Courle, a little more northerly, goes between $S \%$. Aludrea and the S.E. cod of the Inand of Negropout; then fteers away due N. and N. by W. and N.W. cither for Salonichi, and the Gulph of Volo, or N. by E. to Mit) line and the '/bardunclli for Conflantinople.
A. B. This is the unal Courfe the Venctian Ships take when they go the height of Lemnos and Tenedos.
2. The ad Courle is, pafing from the lame Point between

Serigo and they go an pals betwed between T the Main $f$

The E. From Cape full of dcep part of the N . from to Napoli a or Old $N a$ vey, the years exce tle occafid efpecially

The Pad pafs for $T$ ftecring ha and the In.
bound.
Ten Ls. to the weftward of thefe Inlands lie other two I. flands call'd Cbaldereno or Calderoni; and a little farther wefterly about ${ }_{15}$ Ls. lies the Ifland of Cabrera: they both lie very clofe to the Land, no Channel fit to fail thro' being between.

Duc E. from Cabrera lies a fair Bay, in which is a good Road: there lieth another alfo to the weftward, which likewife is a good Road. From thence W.S.W. 12 Ls. lies the Ifland Gofo, and another low Inland to the weftward of it, call'd Antegofo.

Gofo is high at the W. cud; and at the N . fide is a fair fandy Bay, and a good Road: there is good frefh Water to be had; and at the S.W. Point of Gofo, not far from the Land, lies a Rock under Water, which is very dangerous.

Gofo and Cape St. \%oln, being the weftermolt Point of Candia, lic N.W. by N. and S.E. by E. dift. II Ls. from each other.

Thofe that come from Cape Palfaro in Sicily, and would go to the fouthward of Candia, thould fail E. by S. fomewhat foutherly, otherwife they will not get to the fouthward of Candia.

The S. fide of Candia is towards the W. part of it, very high Land, moft times cover'd with Snow, and reaches about half way the Inland; but from thence caftward it is low, and fhows at a great diftance to be Hills, and broken Laud, tho when you come nearer to it you find it otherwife.

## he Morea, from Cape St. Angelo exclufive; with

 and the Several IJlands and Coafts in the faid City of Conftantinople inclufive, compleating the ope. loderns Arches, he Port a come on the affages, A ChanSerigo and Serigoto, or perhaps between Serigoto and Candia; they go away N.N.E. and leaving Milo on the Starboard-fide, pals between the Inlands of Serfour and Siffanto; then paffing between Tinos and Mycone, fteer away N. between Scio and the Main for the Gulph of Smyrna.

The E. and N.E. Coafts of the Morea come firlt in view. From Cape St. Angelo the Land falls away to the northward, full of deep Gulphs, Bays and Harbour, no place more in this part of the World.
N. from Cape St. Angelo goes in the great Gulph of Ausea to Napoli de Malazafia, Napoli de Romania, and Napoli Vechia. or Old Napoli. This Coaft has not been under any exact Survey, the Morea having been Turki/h for many Ages, a few years excepted, in which the European Merchants had fo little occafion to go among them, or make ufe of their Ports, effecially on that fide, that they are fcarce known to us.

The Paffage of our Trade (fo the Scamen call our Ships that pafs for Trade) from St. Angelo to Zea lies N.E. by N. and iteering half a Point northerly, carries you clear between Zéa and the Illand Macronifi: that Palfage which is the Fair Way

## Sailing Directions for the Tllands on

 is more than ${ }_{3}$ Ls. broad, a clear Se., and tull of Shetece on all Occalions.In the palfing this Iength, you have feveral thands on both hands of you, and many of which you will fee or not dee, aj the Weather is clear or hazey, ziz.

1. Maricureo. 2. Terra Polla. 3. Falkonera. 4. St. George or the Catidmals Hats. =. Milh. 6. Autimilo. 7. Firmio, and feveral other finaller Iflands.
I. Ahericarin, or Cirraca, or Civaza, lies N.E. fom Cape Angelo sis. 'tis a black rough Rock and no better ; fimall for an Illand, but large for a Rock, tis about as big as the Hulls of 2 or 3 Ships; it is of mo we to be deferibed, but that it may be aroided by the Mariners: there is no Riding about it or coing near it : you leave it on the Larboard-fide, and go on to Falconcra E. by S. 6 L.s. This Illand lics to the cattward of the direct Pallage above- mam'd; but they whogo to the enltward of Ciraza, choofe to go to the caltward of this allio; nor is it of any Conlequence on which fide yougo, to that youkcep ar a good ditance from them both.

Tin wolli, or belli Polla, as fome call it, lies more to the weftward of the Paflige ; it lies from Cape Alugelo N.E. by $\mathrm{N}_{\mathrm{i}}$ io Ls. It is a fmall high tland, and makes like 2 Ithands with 2 high round Hills: it bars with Graza N.N.W. and S.S.E. dift. + I.s.

St.Gonrge, or the Cardinals Hats, lies intowards Cape Coolon:s: and the Ciulph of Athens, or the Eubcau Sia, S.W. by S. from the Mland Macroni/a; 'tis high and ftecp, and caly to be known by the tops of the Hills, which make cur Sailors call it the Cardinals Hats. In the Fair Way nam'd above you go cofe undice it, bur there is no Road or Harbour in or near it, and hardly any Bottom about it.

Aacromf is a low hat lland, having two finall Hills at the S. cnd of it about a Niile allunder, and by that Mark it is to be known; they are inded upon two litele Iflands diftinet from, bur cloie to the main liland, and are not feen to be llhands as you pats along: the thand it felf lies N.N.E. and S.S.W. a little cafterly and wetterly:

Zect is higher Land, and near it is another Illand call'd Fio. mio; they are both hilly: There is a very good Haven ar Zeia, able to receive agreat Navy, being well flicter'd, and having any Depth of Water from 20 to 30 , and 32 Fa. and with gradial Shalings to 2 Fa . In the beft of the Road you have 17 to 1 í Fa. and in another Part good Riding in 7 to 10 Fa . The Eutrance is narrow, tho without any Caftle or Guns: you $g$, in due S.E. or a lietle foutherly: bue when you are in, it fpreads cyery way to the E. and N.E. and to the S.IV and S.

From ¿ ia to Macroni/2 the Courfe is N.W. northerly: St.
 I.s You will know the Haven of $Z$ ea by very good Marks; as firft. a white Church or Stecple on the N. fide of the Eurrance into the Haven, which is fecn off at $\mathrm{Sca}_{4}$ or 5 Ls. Open with the Mouth of the Haven, you lee a round Mountain with

Beride Harbou Mouth, F.a. hard is a lit there is lecure ir

At $t$ Fag goo by S . fir this Ith. rous;

Betw cilld $h$ Chame is allo a broad; ward: for on thote th kecping mult no

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go in,

## the Iflands on the Coafts of the Morea.

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Is on both not lice, aj
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$\mathrm{c}=$ Illands N.N.W. and
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Hills at the $k$ it is to be Itinct from, oc Illands as S.W. a little
d call'd Fi\%. recn at Zea, and having d with graou have 17 7 to เo Fa . $c$ or Guns: when you and to the
rtharly : St. sont dac N. 8 d Marks; as he Entrance ; Ls. Open ountain with

Befides the Haven, there is allo a good Road without the Harbour, under a little Illand, due W. from the Habour's Mouth, and not a L. off: There you ride allo very fate. in is F.. hard tandy Gromed. Alio on the E. fide of the Porto Lion is a little Bay, which runs far in to the Land, and in which there is another Haven ; tho indeed the Bay is it felf a Haven, tecure from anmoll all Winds, and good Anchoring any where.

At the llland $\rho$ 'icmide there is good Anchoring in in to is Fa good Ground; it lics S.E from dthens about 3 l.s and W. by S. from Cape Colonni + I. . but there are many Rocks about this Ifland, and fome of them moder Water, which is dangerous; otherwife in all this Gindph you need no Phlot.

Betwecn Alacromifiand Negropunt lies the Ithand of Andror, c.lld here Audrea: it lies from Zoa N.E. by E. 8 I.s. The Clannel between this and Negropont is about a L. broad: there is allo a Channel between Aludros and Tinos, which is 2 Ls. broad; and either of thefe ferves for the tame Courfe northward: But the firt is the fiteft Paflige, tho not the broadeft: for on the fide of Tinos there are Rocks under Water, and thote that wie this Channel muft be careful to avoid them, by keeping to the fide of Aldros; and if they are to turn it up, mult not ftand over ton ucar to Timos.

Having goten thro' this Channel, they may fland away for scio and Smyrm, as they pleate, or keep to the N. and
 scio, the Courfe is N.E. by E. 18 I.s.

The Ifle of Andrositrectics away N.W. dift. from the Mouth of this Channel 9 l.s. to fome finill Illands which lie on the W. fide of it ; and from thence N.NW. N. N.N.E. and at lait N.E. At the W. cud of the Mland there is a Haven, but 'ris a forry Place, full of Rocks, and very difficult to get in if you are out. (and may be in diflects) or to get out when you are in ; nor is it good Ridng, when you are in. From the N . Point of Andros to Scio is 16 Ls. the Courle is E N.E. and to the lland call'd the Caloyers 5 Ls.

To go from Cape Augelo to Scio, the Fair Way is as before; but your exact Courle is E.N.E. a little northerly. After you are palt the Illand of Autemil), go away N.E. by E. according as youhave the Wind; as to the Illands in the way, it is nor of ablulute Neceffity to leave them on this Board or on that ; for moft of them may be faild round on any board, and you may come into the Courfe again, when you are patt them.

The firt Ifland you make from the Cape is Mill, or Mill!, duc E. from the Cape: It is high Land, and makes in the Shape of two Hills, the fouthermoft is the biggeft, Antemil) is Iels, but as high as the other, and round in torm, come to it which way you will : the Conrle to it from the Cape is E. by N. and from Milo N.W. you may fee it 10 to 12 Ls.at Sca. There is a good Haven on the N . fide of Aito, it gocs in S E. by S. and S.E. and is fecure fromall Winds: Bue in cale of a northerly Wind there goes a great Sca; it is very good when you are in a proper bearing within the Haven, bur you muft not go in, or moor your Ship when you are in, without a Pilor. cafterly and wotterly.
Zia is higher Lanid, and near it is another lland callid Firm:3; :hey are both hilly: There is a very good Haven at Z'a, able to receive agreat Navy, being well fhetter'd, and having any Depth of Water from so to 30 , and 3: Fa. and with gradial Shalinge to : Fa. In the beft of the Road you have 17 to 18 F.a. and in another Part good Riding in 7 to 10 Fa The Entrance is narrow, tho without any Caftle or Guns: you go in due S.E. or a lietle fouthorly: but when you are in, it fureads cecry way to the E. and N.E. and to the s.W and S.

From / iato Macronia the Courfe is N.W. northerly: St. Ge. . 2 he hes from you W.S.W. and the me of Nigropont dae N. 8 I.s You will knew the Haven of Zea by very good Marks; as tifl, a white Clhurchor Steeple on the N. fide of the Enermence into th: Haven, which is fecn off at $\mathrm{Sa}_{4}$ or 5 Ls. Open with the Mourh of the Haven, you lee a round Mountain with a hase Buidding on tt, like a Church or Cloitter: beyond that yeu tee the land much higher than the Building, and on it 5 Windmulls altogether; bring thofe Mills to bear SS E. and go "ith them fo, and you will lion lee the Church on the Pome of the haven.
The Haven runs in S.E by S. and notwithfanding it is fo good kidus, yet it is fin large when you are in, that you whil find you maiy wata a plot to direct you where to ride.

There is a good Haven at Macrome/ alfo, but not like that of $Z$ ia; it goes in on the $W$. fule betwecn the Mand and the Mim: you may thal thro', but there are many Rocks at the $N$. cud of the ifland, which you munt be very carcful of: If you are bound in cither to the Haven, or to go thro' the l'athage, rake a pilot for 'ris difficult.
N. of the Mmad lies the Haven of Porto Raphti, being at the Entrance mo the Chancl of Negropont, or between the rwo lhands: tis fan'd for being the mof convenient Haven in all the Arctes, and ctipecially for Ships in Diftrefs, becaule you rus in fo readly with almoft any Wind.
N.IV: FromC.me Coboni gocs it the great Gulph of Augia, which reaches sthin 6 Miles of the Gulph of Corinth, but is ignorantly by the Pilot Books callid the Gulph of Corintl); wheras the Gulph of Corimbl) is the fame which is now calld the Gulph of $L_{\text {e }}$ 'puth, and opens into the Mouth of the $A$ driatick Gulph, about zo L. . N.E. from Cephalonia. This Gulph is by tome calld the Gulph of Cencbrata, becaule the Haven of Cenclosita lies at the farther end of it. Cenchara was formerly the Port on this fide to the Ciry of Corinth, as Lechicis was in the other Gulph, now calld of Lepanto.

In this Gulph is the Hasen of Athens, now call'd Porto Lam: 3 L.s. E. of it ftands a Cafte upon a high Mometain, which is the Mark by which the Haven is to be known: The Haven is good fill ; the Entrance is like that of $Z$ ca, narrow; but when you are in, 500 Sail may ride at large ing to 10 Fa . good clean Ground, and fafe from Rocks or Shorms.

Togo fom Calge dugeln $10 S_{6}$ o, he Fur Wiy is as before :
calld lörcon at $Z$ ids. and having 1 with grapu have 17 to 10 Fa . or Guns: when you and to the
therly: St. ut dac N. 8 Marks; as ac Entrance Ls. Open untain with ocyond that and on it 5 E. and go 1 the Ponit ling it is fo at you will ride. or like that and and the ocks at the actul of: If ro' the Pat-
$t i$, bcing at between the nent Hawn rels, becaule
hof $A n g i=$ inth, but is of Coi'inth; is now call'd h of the $A$ tuia. This becaule the

Cenchara Corinth, as panto. call'd Porto $h$ Mountain, nown: The Cca, narrow; 119 to 10 Fa . us. but your exact Courte is $\mathrm{E}: \mathrm{N} \mathrm{E}$. a litele northerly. Atter you are palt the Mand of Alutemill, go away N.E. by $C$ accordugy as youlave the Wind; as to the llands in the way, it is not of ablolute Necetlity to leave them on this Board or on that ; for moft of them may be lacid romed on any board, and you may conc into the Courle again, when you are patt then.

The firt lland you make fiom the Cape is Mill, of Millo, due E. from the Cape: It is high I and, and makes in the Sloupe of two Hills, the touthermot is the begett, Amtemel is Lets, but as high as the other, and round in torm, come to it which Way you will: the Courie to it from the Cupe is E. by N. and Hom Mily N.W. you may fee it to to 12 Ls.at Sca. There is a good Havenon the N. fude of Mah , it goes in SE. by S. and S.F., and is fecure tromall Winds: But in cate of a northerly Wad chere gocs a great Sca; it is very good when you are in a proper bearing wehin the Haven, but you mutt not go in, or moor your Ship, when you are in, without a Pilot.

Antemiln lies clole to the llaten of Milo. So that it almont blocks it up; which makes the Harbour of the laft the more fecure: there are feveral Rocks between, to go among which the Pilots will inform you.

On the Ne. fide of Mito lies Areentera, a fimall Mland; and between them is a good Anchoring abrealt of a white old Church; it is call'd the Road of Argentera: you have 12 to ${ }_{13}$ Fa in ir, and good Gromad.

There is allo a Haven at the S.E. cond of the Mand Serfon; but 'tis Pilot's Work to go in. There is a finall Haven alio at Sufinto.

As the Fair Way from the weftward to the Port of Smyrma lies between the Mlands of Serfon and Sifanto, and then between Tinos and Alscome, thote that are bonnd to Simyrme thould be caretul in this part of the Paffage, which is the moft defficult; the firft part of the Courtic is N.E. by E. and E.N.E. towards the S. end of the Illand Syra; then an E.N.E. Courfe leads them to the Channel of Tinor, and between Tinos and Mycont. In the middle of this Paffage lics a great Rock call'd Lacatio, a little part of it is above Water, and that but a little Way; fo that coming in the Night, it may be over-look'd, or in dark Weather. Thole that are bound chro' this way, would do well, not to go too far off from the Illand of Syra, which is the beft way to avoid it.

There is another great three corner'd Rock quite under Water, at the S. cnd of Syra; it lics flecp and floaping all along from the s. to the $N$. cnd of the Inand.

Syra has a Haven at the S.E. end ; it lies due N. from the cover'd Rock: 'tis a difficult Entrance, and you mult have a Pilot. The Channel betwecn Tinos and Mycone is near five Mile broad; there is a Ledge of Rocks indeed in the Palsfage, call'd the Dilles, which at the W. cud grow up into linall Iflands, but they are all above Water.

Thios has no Haven for any thing bigger than a Long Boat; but there is a good Road in a fine landy Bay on the S.E. fide of the

## Satiling Dircilions for the Paflige of the A

the liand; thete you may enchor in is to 20 Fa . Niris there any good Haven at whome, but feveral good Roads, efpecially under the wettermoth Point of the lhand, where you rible letore rhe Town in 15 to so Fa, good (iround and well floltcrid hom N.N E. E. and SE. Winds; but a $S$ and S.W. Wows right in: yet 'tis counted to good a Road, and to cyual to a Haven, that many Dierchant Shifs winter here.
I.rom this Channel to the lhand son, or to " omettico, a Kock at the S cond of Si $i$, is 181 s. the Cound N.E. by N. La the way from this Paflue to tine cutph of dab meth, is the Hhand stivas, lying from the cattermon Point of the lle of Nerpoforit dac N. dith 13 to 1 . Ls. On the S.W. fude of it is a Hiven, and at the S. Pome of the Entrance into it lic two wea Rocke, and they are no more, tho calld iflands; they are of a red Colour, andlecn a meat way, and are a Mark to know the Haven by; there is pood Kading inthes Haven with all Wind, and a fenr Entrance wothour any need of a Plot.

There are Everal inond Anchorind phaces and Roads on the oher fies of the litand and particatarly whe bafige be-



 fy that the whote lland of Shios is a geod Haven.
Itom a/oos on the S. purt if icheptais i- Ls. the Courfe is hy W. Thes Thand makes the s. pare of the Enrabice man the Guph of beltith. A hate beyond he $N$. Wr int of it, there is a very consenim: Hasen, the Lutrance henb. by S.ond E.S.E ; it is barow, but cicar, and hate hath, in or out : the velt Radng when you are 1 m . is on the S he moder a !ont; thereycuwilh hac 1 to 2 Pr made falt to a Foft, othe shore, and one Anchor on the Water. Yon are allo fhelterd fromall Winds, hang that a wetlerly Wind hin-

 a ded mak: Pose of the Ships

Thae is a Rood wathour thelluen among fome lhands,



 but on other llaten. From hence to the lhand dithe a is
 doplage Bay: 'lhis is patt of what is calded the Ciatpotof
 Whind them the lentance mot the Baj, goumay mewhere souwil, and in in or out between any or all ot thote llands ; ine: is cerey where Death cnough, and no Rocks under Wator any where

Thereve mby one Late of Rocks that are dangerome; they
 Water mon then, and lome ships have been foft there : you Wen and breach of the Sea

Havin! Nogiopoi liet', or The 1 and the $n$ your Pal Circcks . This is which yo fincocha appearanc frim you and Ship twecn tho and provi or FiNE and you

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## Drige of the Archipelague to Confantionple.

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## he Courfe

 the Ennd the $N$. Lutrance dete talns, he 5 mot f.att to a Yon are Wind hinha: whon fich comec Ml.nds,
a . 112 s . is bochming ylathote. his Gulph, $\% a^{*} a$ is 5 io a very (ialpot of lands, ant ridewhere de Mands; under W.a-
rots ; they or 6 Foor here : you of the Sc.

Having pafe betweon the IGand, butwen the E erd of Negropont and the lice of stuarar, the Courde is NE. to distylune or E. by S. to bcio and stumat.

The W. Point of Mitylue is calld Cope Secero, or Seatio; and the next Point on the Main, that is, whin makes next in your Paflage forward, is calld Cape bt. Ihays, but by the Cirecks Cape Pabobera, na Balabora, !ying che N.E. dint. 3 Ls This is the firt Land of Aba, bsing the Coant of Nutia, which you make a the Whele Vojuge; 'tis a high Point. finooth and fare oa the top, and hews life an liand at its firt apparance, as you dill to tac Dodandi ; it bears S.E. by E. frem you 4 to j Ls there is a anod Rond nater the Pomt, and Ships combs from the nothwad do ofen ha! then' betwen the Mhand and the M.ia, and tis caly to to wow ware, and providal hoy how the Cunt, and hate a Wiad at NNE. or FNE. tis a bod Shore, and do the way ened ancioring, and you have $\because$ io 30 Fe whth (iun hot of the Sthan.




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 to go in an! or, to that yen man mana ne ot a lion to en in or to cume wit



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 help of the Lewd, it 15 , 1ten dane ath hata...



 Point beture you ce me to the latance. Jhe to fors








There are abmanic of mall mandstyme ab ut the Gulph, but wo other Haven. From hance to the lland fich ata is 5 Ic. W NW it is a tmall hand in the Entrance into a vory decplarge bay: This is purt of whe is calid the fiulphof foblo. At the $S$ cud of atata lie 5 or 6 other mands, and Wehnd them the latance into the Bay, jou may mede where youmbl, anco in or out betwecn any or all of thote Illands; ihne is crepy where Depth cnoteh, and no Rocks under Wator any wacre.

Thite th onf one lede of Rocis that are dangerove; they lic bencenthi Mandani Sabspate; there se but 5 or 6 Foot Waer upathea, and fome shaps have been loft there : you mu cafty lane them by the Ripphang and Breach of the Sca upan then, thers it be calmi li cather.
 N. a litele weftery; the Gutphts = Ls, wide when you are in, andit masin ote if Is mhen th. At the Botom of the Gulph liceste City of $V$ lo, where is a grod izoad, but no Haven: Tou have many rood Ronds, hamis and anchoring places in din; Cutpin, and fome hmall bay, too many to emmerate; nem are wehped dwith Name for them all: 'T is chongh to ty, , hat escect where a very commodious Gmph, and there
 your Bofinets that requat:
S.W. from the (wlph we ath freches away to the W. col of Nergont, and to the i'olsof the inow, which hes along beacon Aorome and the ham: As this pan above the Githon a a gode off for all the peppotes of Trade, fo is that

 "sthout either Haven or koad, and if ?on are tak: n here whir a Wend off Sca, you mutt work it off if poliibic, or r:m a-hiore and be loft.

The W. chd of Narofont is cood, and you have oppofite
 mall Crica and Coatt Towss, wheo we Havens or good Loads, and in all of them Dilots th y youm.

Noth of Couttagoce m the $a$ if ialouich and the Coalt of limado! and Tbiate, whice make together the
 Inche, the Nupthoi wheh is nawable for great Shaps, and is mach frequented: bit the a ac Phots to dnect all Ships Whith come from the huthw...: As to the Coalters, they are as it wore at home, and need not ther holp.
 Shpr, whag hon the owher, as in' have, to the Conf

mann 0 and NW of Rocks Shore. I rumbing 0 ning out that fide, holp of t From Entrance fpoist, the the Strei Point bet St. Ilay Crecks, the I.and. mulls; 'tic at fomed deavour olf from Point, yo

There you cnter it, and is Stroight the Caltic

If you Strexghe t the S.L. 1 outward, times fo fearce ftet fide neitho Shore; fo and in ton ry dangen clam, to t hive no di trom it, as

The la thete Cant wads a lo Point rex Houle and fhumn'd. a Strcights.
silo the Shore tow aforchad 1 you mult Woth in lai

Bmunds, .arcat as bowing ylathore. is Gulph, $a^{+} a$ is 5 , a very Siulph of unds, and de where : Mhads; nder Wa-
tis ; they or Foot re : you the Sca
it gocs in ou are in, lsc Gulph Haven: places in imerate ; nugh to and there ride, as
the W. ics along ove the (i) is that that is, is Coult. $\because n$ here iible, or
oppofite al other or good
and the ther the ac Sains, and is II Ships chey are
"roficu he Coat




 ning out alfo from the lhated, is is dificth ita ans at in that fide, tho by the fe wo at woll acymined, and by the help of the Lead, it is sfen dane with buber.

 fpont, the Confe is N.E. bjN. 3 or 4 N. Tha $\because \therefore$ int
 Point betore you ceme to the Entance. The and mén


 mulls; 'tis a phan l'ont. onily ihat there are thre litt's thais at fome difasace foom it : it you are hound is, you mati cor deavour to go without a Salud, which rums about a bembine off from the Point into the Set; hat lemes abraft ot the loont, you are pat the sand to :he N.

There is another whic Pona bejond Cu", \%effir i, before you cuter the Streilit ; there is io Pa withm Nasket lhot of it, and 15 to andi.haf at.onf; and iathe Eurance of the
 the Cultics.


 outward, and chathy in the Whiter ; whi. h Curent is benctimesto extraordmary, that with a good difi (iate won cun farce ftem it : and yee you mutt not come ton azer the S F . fide neither, not cloker to than about an Iusher-finot foom the Shore; for the Shore is foul agood way ont from the batad, and in lome Phecs there are Rocks under Water which are bery danerous, and mut be fhumn'd; but the other fule is rery clan, to that in hanher along, except that of the Curent, you live no diflicuity, but may lil cloie by ir, and allo to it and trum it, as you blade, without any danser.

The lathe b buwen the Lands is about = !. . wita; licm thete Canles tawn! the Courfe is $\therefore$ and N. by $\because$. $]$, to. wads a low Pont which lics on the lis fud and hat and.....
 Houte and a thick and hish hear of Stome whith an tis to thumbl, as well when youcome to as when jow belle an the Streiglits.

Bilo there fletches a bank of Sand a pond wiy from the Shore towards the W. folde ; and betweon be batios ata the aforchad Point on the r. file, there achems don Pomes whin youmult ayoid: All the Shaps thet prat hate Sannats mutt


Days to be farchid. You mult come to an Anchor near a Gren place which you will lec upon the Land juft before you. Thote that come from the caftward, being paft the Yoint of the Bank of Sand mention'd above, muit luff up clofe by the Point which is on the E. Shore, and come to an Anchor under it; but you muft be carcful that you lic not too far from the Shore, and fo mils your anchor-ground ; for a Musket fhot to the fouthward ot the Bank it's 20 Fa. decp.

It happens fometimes that the Ships coming down the Streight :rom above, with a ftrong N. or N. calterly Wind, do mits the anchoring place; and then there goes fo forcible a Stemen ontward, that not gaining the Roadfoon cnough, they we oblig'd to anchor in loft Ground, and to are driven from their Anchors between the Caftles, the Ground not being holding cnough, fo that their Anchors come home.

Over-againft this Point to the $W$. fide (or a little to the northwand of the wefternof Cafte) lies the antient Cry Mayta, ncxi which, on the Land, are many Wind-mills. vecn Miata and the Point it is about a L. wide: From this Point (or from the Rock off of the Cafle) to Gallipoli, the Courfe is N.E. by E. and E.N.E. 7 or 8 Ls. To the weltward, or belind Gallipoli, there is a great Bay, where you may ride well in a N.N.E. Wind, but an E. Wind is but indifferent for it : There is in the Road 20 and 25 Fa . and you lie before the Arfenai.

To the caftward of Gallipoli is alfo a great Bay, but the City ftands on a Point, and the Land is even and low, to that (in a mannel) it is lower than the Water. Between Gal. lipoli and Mayta you muft always ftand neareft the N. fide, but not too near in dark and thick Weather; for at fome Places there lie certain Shoals, upon which if you ftand too near you may perhaps ftrike; yet by Sounding you may find them in the might, and may ditcern by day where they lie by the Colour of the $W_{\text {ater. }}$

On the Nuioliz: fide the Land has fome Bays, and you may perhap be 10 datiger of touching on fome of the Points between than, as jou come from Gallipoli, in dark or thick We enther, and as you come from above allo; for there feems to the ap Opamiss: Sall therefore towards the high Land "hethli:s to the northward of Mayta on the Gallipoli fide, and you will difoover them in coming near to that Shore. Youmay ride ander the lee of thofe Points of Land in all northerly or wefterly Winds. In the Paffage becwecn Gallitole and $: 12 y$ it is, at divers places, abour 2 Ls. wide.

Over-apuinft Gullifoli, on the S. fide, lics a Ledge of Rocks, which you mut fhun cither in failing in or out: This I cdge reachos far from the Shore; ir's very ftecp, to that at whe time you will have $3^{\circ}$ Fa. and the next Caft 10 Fa. and then about Ship, or you will be upon them.

Between this Ledge of Rocks and the Main to the fourhward, you may ride aim in in all Winds; but you mult fail to the weflward of the iedge of Rocks, for at the E. end it

## affage of the Archipelague to Conftantinople.

thor near a before you. he Point of (1) clofe by an Anchor too far from Musket-fhot
down the iferly Wind, to torcible a nough, they driven from f bcing hold-
little to the ncing Mays. vecn m this ऐoint , the Courfe lward, or bemay ride well ferent for ir : c before the

Bay, but the and low, fo Berween Gal. the N . fide, it fome Places too near you d them in the $y$ the Colour
and you may he Points beark or thick $r$ there fecms c high Land Sallipoli fide, that Shore. Land in all rween Galliwidc.
a Ledge of or out : This p, fo that at f 10 Fa . and
to the fourhpu mult fail to the E. cud it
you will fec another Hill on the high Landelole to the Waterfide; from thence you are about a L. from Gallipoli, and then you have 20 Fa all good anchor-ground; you may fail clote along the Shore, only beware of the Rock under Water lying off from the Light-houfe, as is mention'd above.

Betwecn Gallipoli and Marmora, that is, between the N. and S. main Land (for Marmoria is an Ifland) the Streight is 5 Ls over.

Marmora is a high and flort Clump of Land, being one great Rock of Marble ; it is the highct Ifland lying in the Gulph coming from the weftward; is appears in two Hills, having a little low Ifland to the northward, and with two or three other Iflands to the fouthward: Thefe alfo are low, and not great. Sailing from the Caftles to Gallipoli, you may fee Marmora all the way; and while you are to the weftward and northward of Gallipoli, you may ice this City over it : You may fail to the fouthward of Marmora between it and the low Illand, as moft do in the Winter. becaule the Winds then commonly blow at S. and S.E but in Summer and in good Weather, for the moft part they blow from the northward, betwen Marmora and Rodefa.

Between Marmora and the Ifland to the fouthward of if, it's all clean Ground; neverthelcts with thote that have great Shers, and are not well acquainted, it's beft to fail to the northward of Marmora. The Italians indeed commonly fail thro' to the fouthward, between Marmoral and the Natolian Shore, where there is good riding in many places, and Shelter from all Winds.
S.E.by E. from the E cnd of Marmora, about half way over, there lies a funken Rock, on which there is not above 8 or 1o Foor Water; "hich in failing to the louthward of Marmora, you muft take heed of.
$\%$ oint Rooriffa, over-againft Marmora, is a pretty high Point, higher than the other Land thercabouts: With a northerly Wiud you mult not come too near this Point, becaule, if youdo, you may chance to lofe a Matt, by the W'ind coming down from the Point in Gufts and Flaws, as with thofe Winds it very often docs.
E. of this Point, it is again low and even Land ; and in the Bay lies the City Heraclea, near which on the high Land fand a grear many Mills.
Thofe that are forced to turn betwecn Gallipoliand Ahamora, or from thence to Coinfiantimopl;, mult nor fand over too near to the Natolizn fide; for on the N. Shore thete goes the leaft Tide, but on the other it runs forcibly to the weftward.
From the $\mathbf{N}$ fide of Marmora E. by N. io Ls, is another Point call'd Marda, but not reaching very far out; to the cilltward of that is good anchoring A Mite farther to the caltward of that Pount is a great white Spor on the Land, by which it may be cafily known : Next to this is a white Strand and fla.!ow Water: A Gun-fhot from the Shore there is but ${ }_{5}$ Fa. but failing from thence to the weftward, it grows decper,

Wexticr, ayens your conte from above allo; for there leems to be no Opemnes: Sal therefore towards the high Land which lies to the northward of Mayta on the Gallipoli fide, and you will diforer them in coming near to that Shore. Soumsy ride ander the Lee of thofe Points of Land in all nostherly or wefterly Winds. In the Paffage between Gallifoli and derata it is, at divers places, a'jour 2 Ls, wide.

Over-arunt Galiipoli, on the S. fide, lics a l.edge of Rocks, which you muft thun cither in failing in or out: This I.edge reaches far from the Shore; it's very ftecp, fo that at one time you will have $3 \circ$ Fa, and the next Caft 10 Fa . and then about Ship, or you will be upon them.

Between this Ledge of Rocks and the Main to the fouthward, you may ride almoft in all Winds; but you mult fail to the wellward of the Ledge of Rocks, for at the E. end it reaches out with a Tail to the Main.

Over-againft Gallifolf, lehind the aforefaid Ledge, lies a City call'd Camanar, clofe by the Water-fide on low Land, fo that it is hardly feen; but Ciallipoli lies fomewhat higher: Upon a certain Point to the eaftward ftands a large Light-houlc: Over-againft that Light, and about a Gun fhet from the Shore, lies a lunk Rock, on which heretofore many Ships have ftruck and been loft. But exezt that Rock only, it is all over the Gulph a very clar Coaft.

From Gallipli towards the Illand Marmora, the Coaft is E. by N. dift. 10 orim Ls ; but with an ENE. Courfe you will fall about a L. to the noribward of Marmora, and 2 Ls to the fouthward of the Point receello. Marmora and the Point Redelion lic oppofite to each other, and 'tis about 3 Ls broad berween them.

From Gallipha caltwards a good way, it's vary low and even Land, and thoal Water all along, and a Musket-1hot from the Shore 'tis \& Fs decp. On the end of that low I.and, about $=$ Ls. to the caftward of Gallipoli, lies a round Hall, below which there fands many Trees, with a long whit: Tower; but you lote fight of it inmediately. In failing eafterard of :a Hill is a Valley, wherem andabour it fand many Trees; ain abreaft fram this Hill abour a L. from the Shore, and newet to feaward you have 14 or 15 Fa. all good Ground, Dut near the Land it's very fhallow, therefore ftand not too vear the Shore thereabouts: This Shoal reaches eaftward 20 Ls rowards the Hill.

Eatward from this Hill on the Natolian fide, lies a great whice loock not far from the Shore; and as Gallipoli ftands upnit a low, bare Point, and is not very cafy to be known :nmate from the caftward; this Rock is not eafily feen, for than ir lics as it were under the Land; but by the aforefaid wond Hill you may know that 'tis about 2 ls from thence :

## for there lecms

 the high Land : Gallipoli fide, to that Shorc. of Land in all octween Gallis. wide.:s a J.edge of a or out: This cep, fo that at Calt 10 Fa . and to the fourhyou mutt fail to : the E. cnd it

Ledge, lies a n low Land, fo ewhat higher: geLight-houlc : fom the Shore, ips have ftruck is all over the
, the Coalt is E. Courle you nora, and 2 Ls mora and the 'tis about 3 Ls
very low and isket-1hot from low Land, aound Hill, bewhit: Tower; g eaftward of many Trees ; ac Shore, and ood Ground, fland not too eaftward 20 Ls
, lies a great allipoli ftands to be known fily feen, for the aforefaid from thence : pe deeper, and
wints if tery niten does.
1.. of this Point, it is again low and even Land; and in the Bay lies the City Heraclea, near which on the high Land ftand a great many Mills.

Thole that are fored to turn between Gallipoli and Narmora, or from thence to Confantinople, mult not fand over too near to the Natolian fide; for en the N. Shore thete goes the lealt Tide, but on the other it runs forcibly $10^{\circ}$ the weftward.

From the N fide of Marmora E. by N. 10 L.s, is another Point call'd Marda, but not reaching very far out; to the caltward of that is good anchoring A Mile farther to the caltward of that Pome is a great white spot on the Land, by which it may be cafily known : Next to this is a white Strand and fhallow Water: A Gum- hot from the Shore there is but ${ }_{5}$ Fa. but filing from thence to the weftward, it grows deeper, from ro to 20 Fa all good Ground.

Between this Point and the Natolian Shore it's about 9 L.s broad E.byS. And E.S.E. 3 or 4 Is , is another Point call'd St. Stepbano; both which make a fine Bay : This laft is Clay, like Sand, of a reddith Colour, fome few Houlcs ftanding thercon : From thence reaches a Bank of Sand to feaward: About 2 Miles off you have not above, Fa. Water upon it.

This Point and the Ifland Marmora lics diflant E.by N. and W. by S. rior 12 I.s.

From this Point eaftward the Coaft reaches E. by N. northerly 1 L. till you come to the W. Point of the City of Conftantinople, to which you muft not come nearer than 9 Fa. and hill along in the fame depth, till you come near the Scraglio at the N E. Point; and then luff up towards Galata, where the Ships ute to unload, and which is thercfore call'd the Porte.

When you would fail thence, you muft remove with your Ships to Toppena, that with a northerly Wind and the Stream you may fail from the City of Conflanting fle down on the European fidc.

Between the City of Conflattinople and the Iflands that lie S. from the City, it is about a I. and a half broad; but the Land of Natolia touthward lies diftant from the City 5 or 6 Ls .

The Strcight of the Bofploorus, and the Coant of Tisacia, begin jult at the Point oppofite to the City of Conflatitiopicic; by which Streight is the Paffage into the Euxine or Black Sea: But as the Turks permit no Ships but their own to go beyond the Port of Conftantimople that way, none of our Pilots have been able to take any Survey of the Coaft on that fide; by which we lofe che Defeription of the Coait of A/fu as far as Trapezond, and of Eiarope as high as the Strenghts of Citfia and the City of $A f o p h$.

# Sailing Directions for the Coaft of Afric Sea, commonly calld the Barl 

## Directions for Sailing into the Mouth of the Streights on the Barbary fide.



OMING from the North, and being bound thro' the Streights to the Coaft of Barbury, you are fuppos'd firft to make Cap.'Trafillgar, or Travel de Gar, as the Sailors call it; and flanding in for the Cape, when you are in the height of the Point dift. 2 Ls W. by N. fet your Courfé S.S.E. and S.E.by S. By that you will make Cape Spartel, being the fouthmoft Point of the Opening into the Streights Mouth.

When you make the Cape dift. N.N.W. 2 Ls, fecer away E. and E. by S. to you will come in the Fair Way into the Streights Mouth, and immediately make the W. Point of the Bay of Tamgier: Keep your Offing, and keep on with the tame Courfe till you are paft that Place.

You will know Tangice by the following Marks: On the W. Point of the Bay fands an old high built, but ha ${ }^{\circ}$-demolifh'd Caftle; and beyond that above the Caftle, Lyon the Hills which are very high, ftand the Rums of an old WatchTower: Alio to the eaftward of Tangier is another demolifh'd Watch-Tower. Thus you will know Tangier at any diftance, if in fight of Land.

Bcing pais'd Tangier, change your Courfe from E. by S. to E. by N. if you are bound only thro' the Streights; but if bound to the Coaft, keep on E. by S. from Tangier to Apesbill, the Courfe is E.N.E.

If you would fail thro' only, if it be in the night, 'ris beft to keep to the Barbary fide, becaufe there the Coaft is clean, and clear of Shoals or Rifffs; but the other Coaft (as was deficrib'd in its place) is foul and difficult.
$N^{\prime}$. B. At Fangier a S.W. by S. Moon makes fill Sea.
In all other parts of the Entrance or Paffacc call'd the Striegbts Nouth, the Flood runs till the Mon is in the W.bys.

Alfo all the other Parts of the faid Paffage have the Fiood out of the W. which runs on each fide from Cape $\S$ spartel and from Cape Trafalgar along by the Shore, and much fronger than in the Middle; and this hoids to Cape Cabrita on the S. fide, and to Apes-bill on the Barbary fide. And here relpedively the Tide, as above, mects the Flood, which comes out of the Mc-
culties about t but that is not At Malaba Shore dircetly and are all abo tair by them.

To anchor N.W. Corner, bata, duc N.E have 9 to 10 an E. and S.E

From Tang Courle duc E but a Bay ; 't

From Cent Point, but it on a Hill: G lic cven wish

In the mid the Town the black To trom the Sho C'euta toward claa giound lofills your
N. 13. Yo:

Spor of cuntire
Caper Fitu 10 Ls from? for $\mathrm{Cr}^{+}$ on :. d the claving-grou Uorcus.
Penon de it lics from $C$

Having $p$ grown with finc Bay, the is the Placo a Levant.
Scecn Ls of Burcona

## At of Africa in the Mediterranean d the Barbary Shore.

culties about the Tides and Currents in the Mediterranean Sea, but that is not to our prefent purpote.

At Malabata there is a Ledge of Rocks fretching from the Shore directly off into the Sea, but they go but a little way, and are all above Water, and there is no lefs than $\rho$ la. Water fair by them.

To auchor in Tangier Bay, bring the Cafte, which is at tho N.W. Corner, over the N. Wall of Tarsier, and Cape Malabata, due N.E. and you are then in the beft of the Road, and have 9 to 10 Fa. at high Water: You are tafe in this Bay from an E. and S.E. Wind, as alfo a S. and S.W.

From Tangicr the next Place is Certa, dift. about 7 Ls , the Courfe duc E. there you have a good Road, tho no Havcn, but a Bay; 'ris lafe from a S.E. a S. a S.W. or a W. Wind.

From Centa you fee Tetzail as foon as you are about the Point, but it is no Port, for it lies a Mile up the Nisin, and upon a Hill: Go on then S. till you fee the E. endot the Town lic cven with a rourd Hill that thands upon the high Land.
In the middle of Tetwan is a black old Tower, and behirid the Town threc litcle Hills; bring thofe Hills to bcar 1 in the black Tower, then come to an anchor, but let it be fo tar trom the Shore that the firft Hill may be feen to the $S$. of C'euta towards Cafe Porcus; then you will have good riding, clcam Giound, and 16 Fa. Water, otherwife you will endarger lofing your Anchors.
N. 13 . Youl mull be very nice in anchoring here, for the Spor of Greund deferib'd is not two Cakles Iength in Circumference.

 for $C_{c}$, which you may cafily do by incepins che on ' $\mathrm{S}^{\text {the Shore. There is a fine landy Bay, and good an- }}$ cluring-ground, almoft ail the way between Ceuta and Cape Yorcus.

Penon de Velez is the next Port of importance on this Conft; it lies from Ceuta E.S.E. foutherly ${ }_{21}$ Ls.

Having pals'd Vclez from the W. you will fce a rough Point grown with Trees; on the fide of the Point lics Buttery in a finc Bay, the Points 2 Miles afiunder: The E. fide of the Bay is the Place for Traffick, and the beft to ride under in catco of a Levant.

Scuen Ls beyond the W. Point of Buttery Bay, is the Ray of Burema: Here is good anchoring, that is, the Ground is
boll, the Courte is E N.E.
If you would fail thro' only, if it be in the night, 'ris beft to keep to the Barbary fide, becaule there the Coatt is clean, and clear of Shoals or Riffs; but the other Coant (as was deficib'd in its place) is foul and difficult.
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Oa the Top of the (Flood) Tide there comes a Race of a Current from the W. and tpreads the whole Paffage from Shore to Shore, but docs not hold it at that furious rate above half an Hour; which is fomething unaccountable.

But that which is more furprizing is, that all this while, in the middle of the Streights. Mouth, the whole Tide of Ebb runs very ftrong to the caftward; and when the Race of the Current above-noted begins at a W. by S. Moon, at that Inftant begins the Ebb at the W. fide of the Points of Gibraltar and Cabrita to run to the eaftward: So that, in fhort, you have here tour or five feveral Currents rumng all at the fame time, fome one way, fome another.

1. On the Barbary fide the Ebb runs very narrow along Shore, from Apes-bill to Alcaffar.
2. At the lame time, on the W. fide the Point, it runs about ; Miles broad.
3. At Cafe Malabata, which is the E. Point of the Bay of Taugier, it runs 2 Niiies broad, and holds lo on to the W. as far as Cape Seartel, and to runs $\cdots$ ender Shore S.W. as far as Sallec'.
4. To the E. of Cabrita and of Apes-bill, the Ebb is begun by the Race of a Current, as above, and runs in E.N.E. in the middle, and from Alees-hill to Centa along Shore all the firlt halt Tide: and the remaining half Tide it runs from Cabrita E.S E. into the Streights Mouth by the Point of Ceuta; and from Gibraltar Point the fint half Ebb runs N.E. towards Cape Fangerola.

This Variety of theCurrents and Setts of the Tides is more particulatly decicribd in the Charts, and is neceffary for cucry Commander or Pilot of a Ship to know perfectly well in the palling theie Streghts. It is uletul alto to anfiver many Diff- is clean, was dca. all'd the s in the

Flood out and from ar than in file, and ive! y the f the $M i$ tar, and the firft Bibraltar
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 for C'c'e I......, which you may eafily do by liceping chic on : whe Shore. There is a fine landy Bay, and good an-choring-ground, almoft an the way between Ceuta and Cape '1'orcus.

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Having pafs'd Vele $\approx$ from the W. you will fec a rough Point grown with Trees; on the fide of the Point lics Buttery in a finc Bay, the Points 2 Miles afuuder: The E. fide of the Bay is the Place for Traffick, and the bett to ride under in catc of a Levant.
Scven Ls beyond the W. Point of Buttery Bay, is the Ray of Burema: Here is gond anchoting, that is, the Ground is good, bur no cover againt any Winds; 'ris a wild Road, but there are feveral Trading Places about it.
E.N.E. from it dift. iŏ Ls lies Cape de Tres Forcas, or Thorce Points; and here is the other Extreme: For as at Burem: there is good Ground but no Stielter, here is good Deferiac from the Wind, but no good Ground to come to an anchor in: But ${ }_{1}$ Ls farther, S.S.E. from Cape Tres Forcus, there is a Haven and a Mole, but evea this is not for great Ships: So that upon the whole, here is no good Harbour from the Streig'ts Moutb hither.

Fromi Cape Tris Forcas to Cape Hon the Courfe is E by S. 23 Ls: Between them on the W. file of the Bay liss the Fortrets of Melilla; when the spariands polfels 1 it, fome ship. ping ufed the Place, the Haven was kept up. the Moles repair'd, and the Heads made fenviceable; bu: now the illones have it, 'tis all neglected: However, at boft the Haven was not capable of receiving great Ships.

There is indeed yood Ridng without the Heads, but then 'tis without Shelter from any bu "ridry Winds. There is a wide Bay here between the ins, Cises of Tres Frecas and Lz Houc, but there are no places of Note nor any Harbours: There is a fimall River comes into the Bay at Port. Nove, where is good anchoring, and where Ships come to load salt ; but the Port is a Bar, and admirs no grear Ships. F.N.E mom Port Nova are three rocky llands calld Zajarnos, ying about a L. from the Shore, and about a L. from one anotlier; you may anchor on the iW. fide of them indiferently well thelter'd, but come nor too near, the Grom, beiny finh all about them. There is a Town b. hind them on the Shore calld $\mathrm{S}_{2} / \mathrm{i}-$ run; you may go in between the lifandsand the Man and anchor before the Town. Fiom hence to Cape if in is abour it Ls. N.E. and N.N E a fieul Shore, and no goo tanchoriz a any where near the Land. From Cape jione to Cope Fai o in 20 L.s. N.E. and N.F; by E. There is little of Note all the way
 a hate thad of the fancome, where youmy anchor mate of Ncoshly : but no Haven.

 aod widerwe, and betwecn which and the shose is a good Koadra cate of a lecvant. The shore is ctem, hat ao Itare bour; and as thate is an Saty, to then are no Dangers but いhatariolvelem.





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 lan on the la fade of has Pome, and reaches to Cape ter There is enod anchomb betore the Tuwn of filame th the l funat the bay

Fom Coume inot to Cape Tines the Confe is E.N.L. $=6$
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 con: hace, ant fome Rasers, as allo of harge and populous '1. $\because 1$.

A but Wh mater the Cupelies the Town of Tiener or TOM, vimai.... nametoble rape. Here is a gond Pond $m \rightarrow$ on


 © yout format lackle; the eround is good, a hard holding Sal: berve the Sadde hill tor your Mark, When that beate $S$ li, from you, drop your Anchor, for there is the beat - ' the krad.

Onthe 1. Whe of the Cape you have feveral good Roadd,
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¢ EN.N. = sung cmpry Cope lías = Conal allis) ass, hate amad populeus
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and Roade, ISt. to athis is calld ittle Lity of good that, flon: win a from the E . Sc. , and
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S. Wh from the woflomot Point hos a barse Roch, atd thane fimall oncs abone th, all mer Wate, and theretre ver hanScous; thay he at lealt at frem the Sthere: it you womed come to an Ancher in the Road meder this Mhad, youmate




 cos 15 my shacer, the youmay anchor there for the pretent.
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Thare are no Phots to be hathere; therefore the Dirction for thas Road, which is fo necciitry to Aavization, is the morcicymbite.

On the s. fale of the Ifland where the Roadlece are two Crink; if yat come trom the catrard, and woulduch rim
 Spot of Land lying near the Watcr'sedeby the le eond Creck; there gou hase the bett of the Rond, and to to 1210 clate to the She of ; there you arepertecily teard from a ice
 well alfo from wefterly Winds.
A. $l$. The Current wiaily fits alone the flland to the caftward. N. $l$. if youra paiting on the d, Point. whe


? ? add $1 \mathrm{a}-10$ mols calld the to the E. and youmult tult hard holding when that ere is ine bet? mod Roads, offer. to al thes is calld little City of a goot kead, Hhot with a rfom the E. Sc.l, and get
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Cape Matiom the W . or Capes a yood ay go boldiy fide ot Cimes lay ride in 2 umay ride in the Shore m Wn in 25 to

Sca = Miles, y dangcrous; ge about the off trom the is lurrounded a all, for the r. lout all thofe $5:$ L. alt between: which they atows hard Whe Mole is w:! / Gerred;
(ar m. add hant whe your Oppotanty, fland away W. for the mann Rendmar the S. Pomt.

There ate no Piots to be had here; therefore the Direction for thes Rond, which is lo necciary to Navigation, is the morecepulte.

On the S. fode of the Illand where the Road lece. are two Crifs; it !ot come from the cattand and wouldach $r$ in this Rrad, pats the tift Creck, and metior what abmit a prey $S_{i}$ ot of and lying near the Whats ciace by the lacond Cock; there lou have the bet of the Romb, and in to 12 ta. chole to the Shore; there you arepertestly fecurd tom a lebant, and all $I$ inds betweon the NE $E$ and $N W$. and tokrably wall allo from wafterly Winds.
N. $B$. The Curent ubally lets alone the matad to the caftward. $\lambda$. $/$. it you are paling on the l. Font. Whate the high $\varphi^{2}$ eco fands, you hate dometmes very mitoward Guts coming trom the Momtaine, that ate lometuras realy to cany all by the $B$ yand, and will mate the Sea
 the N. or N. H . And then on a hation, beng mater the lece of the Hill, you thall have it dark calain wain, and not a breath of Whad, and then Cin!s agan, and lo very oftea onc atter another: 'Yisnedtilto wath a am! thole Squas, and not carry too much sab thll you are patt the Danger. $\therefore$. $B$. Alto it is ohervel, that the $1 \mathbf{i m}$ in bary at the lame time, accordmg as you are on the or that fide of the lland: When it bows in, bathe of the lo lome it thall blow W.s. $\mathrm{I}^{\prime}$, off of the W att Emm.
It you come fom the with atd. and the fie to put in for the
 man Illad and the hetie lland which hes off ot the ond lav-
 flecr and ay E. to the S. Road.

From the Road yon may foe the fiohny Conth, and the


 make this biand ut Ciathta; and as you have fiaht of ot. the



Yabaria is a little mand in a bay wethan Gunthot of the
 Cont to the wethwad acaches amont to $E$ met. Twol.s. W. of the Illund hes Cape Rolit: As you licat an Anchor teader the lland, the weftermoft Land you cin lee no the Pa, isy
 NE. dat. .- I_s. All the Coatt this 11 aj is a tur Strand, and very good Roads.

On the N. Ede of Tabara is a flong Cafte to defend the Road, andieveral litde Towerstognad the Conn Warchanc; crected there: A lutle to the northward of rhate Warchontes rums a Ledje of damgrous Roks, tome math Water ; Ian,

## Sailing Directions for the Northern Coa

fome 10 to 12 Foot deep; they are difcern'd by the Rippling of the Water on them, and by the Breach of the Sea in blowing Weather, efpecially if the Winds are northerly.

The Road is to the eaftward of thole Rocks, and to the E. of the northermoft of the Corn Houfes there is good Riding almoft clole to the Shore. Suppoie you come from the Scaward with a N.E. or N.W. Wind, run on towards the E. Point, and anchor ; or 4 Ships length to the caftward of the Shoal of Rocks, where you will haves Fa. Water, and carry a good Head-taft afhore : but if you cannot conveniently make ufe of your own Boat, call on fhore or fire a Gun, and a Pilor will come off to carry your Falt alhore for you, and direct you where to place it: Then you may heave in 2 or 3 Ships lengths firther by your Headfalt, by which you will be better fhelter'd from the Wind under the Lee of thole Rocks, on which the Sca breaks.

In riding here fipecial care is to be taken that your Shore-faft be agood Cable; and as it is to be faften'd to a Rock, it muft be well lerv'd, not only that part which is laid about the Rock, but 5 or 6 Fa. of that part which lies next the Rock: for if it thould blow a Storm, and your Cable cut for want of Scrvice, you may lote your Ship; the realon is, there is a large River comes into the Sca juft behind the Ifland, which fometimes runs to fierce, efpecially with a N.W. Wind, that a Ship is hardly able to lic herc.

You may upon thefe Occafions flip, and run into the Road behind the Rock, where you have good Ground in 17 to 20 Fa. and may ride in a Storm at W. or W.N.W. but if the Storm be from the N. or N.N.W. there is no bearing it: Then you muft flip again, and run away caftward under the little Caftle, Where you may ride in 8 to 9 Fa . but Iet fall two Anchors, and lie as clofe to the Caftle as you can. Thefe Dircctions are given the more at large, becaute this is a Place of great Bufinots for Shipping, and requires it.
$N . B$. There are Pilots to be had to direct you in fhifting your Roads in Cales of Extremity, who will be very helpful with their Shallops or Barco Lonso's to get up your Anchors again, when you have been forc'd to llip, and go from one place to another.
There is a good Road for finaller Veffels, which do not drav above 9 to 10 Foot Water, on the W. fide of the Inland, betwecn a Bank that lics off from the Point and the Main: the l'ilots will direct you there alfo ; 'tis a good Shelter in W. and N.I. Winds, which are the worf Winds for this Coaft that can blow.

Right off of Tabarca weftward along the Barbary Coaft are abundance of Rocks, but molt of them above Water: You have all along that part of the Coalt 15 to is Fa. almoft clofe to the Shore; 'tis alio ftony uneven Ground, and very bad anchoring: but caftward toward Cape Negro 'tis the Reverfe, being clear landy Ground, good Shoalings, and not above 6 to io Fi. except one Point only about $1: \frac{1}{2}$. from the Ifland, which is foul but even; there kecp in 6 to 8 Fa. and the Ground is good.

Guardiu, is about a L. li

The Entr: Mile wide : caftermoft Pc ving a Sand Town of $P$ trance into tl you kecp the onc, that is $y$ to the ealtwa 5 Fa . there Harbour.
E. from $C^{\text {C }}$ out of the W:

From Pori far duc S. you a decp round Carthoginian dy Bay, a lati good hard Sa $I_{2}$ Fa. to the appear.

Cape Cart king as it wo other. On Caftle Golett ing the Entr. Caritsuste anc one another the oppofite Riding in an under Cape ( before the P'
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## Northern Coafts of Africa.

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e-fan mutt :ock, for if Serlarge fome Ship

Road to 20 torm n you caltle, s, and Is arc : Bufi-
uifting helpyour nd go nd the

Guardia, is more properly Cape Farit:a; and under the Cape about a L. lics the Porto Fiarina.

The Entrance into this Port is between two Poiuts, ; of a Mile wide : if you would go into the Harbour, keep near the caftermoft Point in 4 and a half Fa. the W. Point is Shoal, having a Sand fltetcling out a Cable's leugth from it. The Town of TPorto Farind is right before you, N. from the Entrance into the Harbour, or N. byE. for you run N. in ; and if you kecp the Church, and the eaftermoft Head of the Mole in one, that is your Mark, and you will need no Pilot, but run in to the eaftward of the Town, and anchor at the E. cnd in 4 to 5 Fa. there you are fecurc from all Winds, 'ris an excellene Harbour.
E. from Cape Fariza is Gamaroh, a low flat Ihand, fcarce out of the Water, dift. from the Main 2 litile milcs.

From 'Port Farima to Cape Cartbage, the Coaft falling in far due S. your Courfe is S. by E. 6 Ls. W. of the Cape gocs in a decp round Bay, formerly a Road aid Harbour for great Flects Carthaginian or Roman, now of fimall wit ; yet 'ris a finc fandy Bay, a fate Road, and able to reccive a Royal Navy, having good hard Sand for Anchor-hold, and graduai Shoalings from 12 Fa. to the Wall of the Shore, and no Dangers but what appear.

Cape CartJage lies between this Bay and that of Tumis, making as it were the E. Point of one, and the W. Point of the other. On the S.E. fide of this Cape ftands the Ifland and Caltle Goletta, famous in Hiftory, defending as well as forming the Entrance into the Harbour or Dort of Tuntis. Cape Caithaye and Cape Tontas make the Bay of Tunis, dif. from one another 7 L. . W. and S.E. as the Cafle of Goliten and the oppofite Poum, form the Port of Tunis. There is good Riding in any part of the Bay of Timis, cithor on the W. fide under Cape Carthage, or on the E. fide under Cape Tortas, or before the Port under the Caltio Gi, exter
N.E. from Cape Tortas ditt. y Ls is Cape 3m : and from thence the Coart trends along S. to C ape Citpa.us L.

From Cape Cupia to Cape Sufai S.c.W. $z=$ Ls.
From Cape Sufil to Comegra S.S.E. 5 Ls.
From Comegra to the City of Africas I.s S.E. by S.
From Africa to the City of difficus is S.E.
From thence to the Port and City ut Triple S.E. half ca. fterly 55 Ls.
N. B. From Tripoli caftward to Alevandria the Cont is not furveyed; nor do any of our Charts give an Account of the Coaft or Courfes, Depths or Somudings, there bems very little Navigation that way, and conlequently no Oicafion for a Survey.

Here being no Survey of the Coalt of Ahick, we munt call ir the Coaft of Egypt, and go awayEaft to the Limits of the Afian Coalt, viz. to the City of '7) amiata on the Mouth of the Nuie. From ${ }^{\prime}$ affici W.S.W. 53 Ls; and 6 or - Ls to the caltward of 'Dumuata reaches a great Shoal from' the Lan!, tome Ls to Scaward, where there is notabove; or 2 , and at

Anchors again, when you have been forced to llip, and go from one place to another.
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Right off of Talarea weftward along the Barbary Coaft are abundance of Rocks, but molt of them above Water: You have all along that part of the Coaft 15 to is Fa. almoft clofe to the Shore; 'tis allo ftony uncven Ground, and very bad anchoring: but caftward toward Cape $N$ egro 'tis the Reverfe, being clear tandy Ground, good Shoalinge, and not above 6 to io Fa. execpt one Point only about i $\frac{\mathrm{L}}{}$. from the Ifland, Which is foul but cren; there kecp in 6 to $s$ Fa. and the Ground is good.
N. B. This Inland of Tabarca would not be fo confiderable for Shipping, but that it belongs to the Gewocfe, who have Feace with the Muars and Turks; whereas all the other Prances and States an the Meditcrancaia Sea, Prance excepred, have perpetual War with them: to that this Ifland is conflantly throng'd with Ships from Spain and Leghorn; and tho it is not boove half a I . in Circuit, there are ; Forts on it, befides the great Callle; under the Protection of which the Ships ride in Safety.
N.E. from this llland, upon the Main of Africa lics Cape Negro, dift. 7 Ls ; 'tis a long Point or Promontory flrctching out tar into the Sca, and the Ground being flat within, you would take it for an lland as you come from the caftward. Thuse are feveral Crecks on the Coalt before you come to the Cape, but of no note to Navigation. the Waters being often dry'd up by the Heats. Eaft of the Cape is a timall Rock; to ${ }_{4}$ Fa above Water, and Iharp like a Spire Stecple; andwhen to the northward you dee thro' it, by this Mark you know a fine tiady Bay which lies beyond it, where you have a very good Road; and all along the Coaft you have a clean fandy Shore wo that you may finl near it, and anchor almoft where you will.

Thsc Coaft tends away E.N.E. and afterwards E. by N. 8 I.s beyond lome Nisro to Cape Marabut, or Mirabut: from thence it trends due $E$. with fome Hills, and feveral fimall Rivers emptyng into the Sea: and arther E. is the Harbour formerly calld fitfinta, being the Haven or Port to the great Gity of Carthate. This Cape Matabut lies with the Inland Ciatitia W N.W, mad E: S.E. dift. 15 Ls. and E. by S. from the Cupe diff. - I s. hes P'ont Cituarda.
$S W$. trom: has Pumt of Citardia dill. a L . lies the Porto farin, or farme there is deftingunfhed in our common Charts a Copicimada and a P'oint Guardia: Cape Guardia, Which is the only Pome that ought to be to calld, is to the $\because$ ?hunt. as above; and that which they call the Point
Ilip, and go
hich do not of the Ifland, d the Main: Shelter in W his Coaft that
ary Coalt are Water: You . almoft clofe nd very bad the Reverie, not above 6 m the Ifland, Fa. and the
confiderable . $/ c$, who have all the other rance cxcepthis Ifland is and Leghorn; re are 5 Forts ?rotection of
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ies the Porto our common ape Guardia, d , is to the ill the Point

From Cape Sufit to Comegra S.S.E., Ls.
From Comegra to the City of Aficia; Ls S.E. by S.
From Africa to the City of difucus 8 Ls S.E.
From thence to the Port and City of Tripoli S.E. hate ca. fterly 55 Ls .
N. B. From Tripoli caftward to Aleximdria the Coall is not lurveyed; nor do any of our Charts give an Account: of the Coaft or Courfes, Depths or Soundings, there Being very little Navigation that way, and conlequently no $\mathrm{O}_{-}-$ cafion for a Survey.

Here being no Survey of the Coaft of Africk, we munt call it the Coaft of Egypt, and go awayEaft to the Limits of the Afian Coalt, viz. to the City of '7)amiata on the Mouth of the Nile. From Faffia W.S.W. 53 Ls; and 6 or 7 Ls to the caftward of Damiata reaches a great Shoal from the Laud, fome Ls to Scaward, where there is not above $;$ or 2 , and at fome places i Fa. Water.

Damiata, formerly called Peluffin, has two high Towers, which are feen far off at Sea, and whereby it may be knowi. It lies open to the Sea at the ealtermoft Point of the caltermof Arm of the famous River Nile, which caules very high Warer there at the Swelling of the faid River.

Before Tamiata there is good Anchor Ground a great way off, but ir is fomewhat foft juft at the Town, by reation of the Mud that is brought down by the Waters of the Nile into the Sea : but both to the eaftward and weltward of Dainiata, the Ground is hard.

From 'Damiata to Cape Brale the Courfe ftrctehes W.N.W. northerly dift. $1_{1}$ Ls. This Coalt is very low Land, with abundance of Trees; but off at Sea it is good landy Ground and lafe riding, elpecially when the Frefhes do not come fo much out of the Nili.

When you firft get fight of this Coaft, the Tress that fland here and there in Clutters leem to be an Ifland, for you fee chem a good while before you tee the Land, becaute the latter is to low. About half way between Damiate and Cape Biral', but neareft the laft, are 2 great Mountains, and right $W$. of 'Damiata 2 Hills, which feem to be 2 red flony Clifts: Thele are good Marks whereby you may know the Coalt, and the Portalio.

Along all this Coaft, and a great way out at Sea, its cien Ground and thoal Warer, and you may anchor in 6 or 7 Fa . near the Shore, withour Danger, even jutt where you will.

From Cipe Brule to Rofetti the Coaft Atretches W S.W. $\theta$, or 7 Ls. C'afte Brule is high Land, bur to the wettiard if it towards Rofetti, the Land is very low, almolt cren with the Water; and you are in so Fa. Water before you can tee the Land: Nay, when you are about ; Ls fiom the Shore, you will not lee st, bur may fee the Valids that ade m the Road before you can fee the Land.

Rofitti lies even to the Sca alfo, as Damiata docs; 'tis fituate onan outer Point of Land, not far from the River Nile, but not jut upon its Banks; it has 4 or 5 high Towers or Turrets, and a Cattle lying on that fide next the Nile, which runs with a great Arm very near by it, and brings down black Water into the Sea. By all thetc Marks Rofetti is cafily known.

Before the City of Rofetti there is a good Road, but in welterly Winds'ris worle lying than at 'Damiata: S. of Rojettio is a great Bay call'd Moody, or Madi Bay, where therc comes in allo another great Strcam from anotheriArm of the River Nille.

Before this Bay lics an Ifland, bchind which is good Riding and good Ground; and if you are forced to renove from Rofetti by any Storm of Wind, you may run into the Bay of Madi behind this Ifland, and under the Shelter of it come to an Anchor in 6 or 7 Fa . Watcr.

Four Ls to the S. of Rofetti lies Cape Becur; and between thele two lies the aforefald Ifland before the Bay of Madi, the Cape thrufting out between the two Arms of the River.
Between Cape Becur and the Ifland are feveral Rocks and Shoals very dangerous, fo that you cannot fail thro' with great Ships except you are very well acquainted; the Ground all the way is very foul. Some of the Rocks alfo lic above, and fome under Water. The Turks fometimes fail with fimall Ships thro'; but to the northward of the Ifland is a broad and good Paffage ; fo that befides the Difficulty, there is no need to run the Hazard.

Upon Cape Becur ftands a Caftle call'd Apokera, which when you firft get fight of, it is like the Sail of a Ship, but it foon flhews it felf.

From Apokerc, or Cape Becur, to Alcxandria, the Courfe is S.W. by S. about ${ }_{4}$ Ls, the Land high and plain. From Cape $G, \mathcal{J}$ in C'andia it is S.E. by E. fomewhat foutherly 134 Ls ; and from Cape de Gata in Cyprus to Alexandria it is S.W. by S. a litile wefterly 8 Ls.

With this Courfe you will come to a Point of Land in $E$ aypt, which lies about 16 Ls to the weftward of Alexandria: This Point is a lietle higher than the other Land, and appears in 2 long Hills, but not high; and coming about 7 Ls tarthcr E . you will find $20,15,10$, or 7 Fa. but then you are clofe to the Shorc. There arc but few Marks to know this Coaft by, becaute it's all low Land, and uninhabited; fo that in 25 Ls running you fee neither Town nor Houfe, except this Point. Four Ls to the weftward of Alexandria lic 2 black Hills upon the Land, by which ftands a Building called the Tower of $A$ rabia. Four Ls caftward of this Tower lies the Port of Alexandria; but in failing to it the Current of the Nile muft be obferv'd, which runs very hard, cfpecially as the Winds may blow. This Current fitting to the caltward runs fo frong, that fometimes you are in danger of over-1hooting the Port; therefore you muft fail S.W. by W. if with a N.W. Wind fail W.S W. lcft, as above, you fall below the Town of Alexandria. To know Alexandria when you come from the weftward, obferve
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## irections for the Wefferin Coaff.s of Africa.

ta docs ; 'tis fithe River Nile, rowers or TurZile, which runs lown black Was cafily known. rad, but in weft-- of Rofitti is a there comes in the River Nille. ch is good Rito remove from into the Bay of cr of it come to
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Apokera, which of a Ship, but it
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t of Land in $E$. of Alevandria: d, and appears in 7 Ls tarther E . are clote to the s Coalt by, behat in 25 Ls runcept this Point. lack Hills upon he Tower of $A$. Port of Ale:c Nile mult be the Winds may st fo frong, that he Port ; therefind fail W.S W. le.xandria. To eftward, obferve
that it thews it felf in = high Mountams; the c.ntemmolt is the greateft, and is like a Comerry Houfe ; the weftemutt is fnallect, and appears at firf like a Stack of Hay. Then you will fec open the higheft Lighthoufe; but if you tall not right with the City, you thall know by thecie Marks whether you beto the caltward or weftward of it: the Land to the weftward is even, without any 'Trees at all, and reaches W.S.W. and W. by S. the I.and to the callward is all low fandy Ground. and full of Trees, reaching from Alexandria to Apokera, or Cape Becar, N.W. by N. 4 Ls. Youmay cafily difern it by the Gromad; forncar to Alex wathdrua and the Coaft to the wethward, it is very decp clofe to the Land, bur to the caftward of Alcxatudria you will have good Anchor Ground and an cren Shore, till you cone paf TDamiata, the further E . the finoother Water; and when you are out of fight of Land, it is not above it or is Fa. decp, and at fome places not to much; you may fall as clofe to the Shore as you will at 6 or 7 Fa and all the Shote cren low Land full of Irces.
The Haven of Alexamdria is a great large Bay, not very wide at the Entrance : On the Poimts of the Haven lland two Caftles, one on the E. fide, the other on the $W$. which is the biggeft ; coming near which you mult fire a Gun, togive Notice that you intend to anchor there, and atter to enter the Port.

Duc E. from the W. Caftic lies a round black Rock above Water ; betwecu which Rock and the aforchind Cafte tis foul Gromad. fo that you cannot dial between them; but E. of the black Rock and clofe to it, you may fail in.

From the caftermott Caftle ftretches out a Ledge of Rocks lying under Water, acd ruming towards the dad black Rock; and between them it is not very wide, but the deepect is 6 Fa . without it is 12,10 , and 8 Fa . Wut within from s it thoals to 4 or 3 Fa
Betore the City lics a Lalje of Rocks, the calt end above, and the well end under Water; but to the fouthwardot it is good Riding. There lies allo within the Haven a Rock abour 4 Foot under Water, behind which is the beft Road in; Fa and ahalf: but all over in this Haven the Ground is harp, that yru mult ferve your Cables well, if you intend they flall not cut: you muft hail to the caftward of this blind Rock, and by thole other Rocks. There are ${ }_{4}$ Gaps like Doors in the Wall of the City, you muft fail towards them, and then keep the greatelt Tower in the City againt the aforelaid Gaps of the Wall of the City, and you need not fear the blind Rocks.
Within the Haven on the E. fide it's foul Ground: On the infide of the weftermoft Cafte the Turks commonly lic, but the biggen Ships for the moft part he nom herly, juft within the Haven in very toul Giround.

Coming betore this Haven in good W'eather, the Pilots will come aboard you, and bring yoa into the Haven. W. of the City is another Haven, but not convenient for great Shps; it ferves ouly for Turkill, Gallcys.

2 long berts, but not high; and coning about 7 Ls tarther $E$. you will find $20,15,10$, or 7 Fa . but then you are clole to the Shore. There are but few Marks to know this Coalt by, becaute it's all low Land, and uninhabited; fo that in 25 Ls running you fec neither Town nor Houle, except this Point. Four Ls to the weftward of Ale.xandria lic 2 black Hills upon the Land, by which itands a Building called the Tower of $A$ rabia. Fuur Ls caftward of this Tower lics the Port of Aliexandria; but in failing to it the Current of the Nile muft be obterv'd, which runs very hard, efpecially as the Winds may blow. This Current fitting to the caltward runs fo ftrong, that fometimes you are in danger of over-thooting the Port ; therefore you mult fail S.W. by W. if with a N.W. Wird dail W.S W. Ieft, as above, you fall below the Town of Alexandria. To know Alexandria when you come from the weltward, obferve

## Sailing Directions for the Wefter, Cape Spartel Southrward, to the Cape De V called Serraloon, exclufive.



T has been obferv'd, that the Straits Moutb is form'd by Cape Trafalgar on the Spanifh fide, and Cape Spartel on the Barbary fide ; and that this Paflige feparates the two feveral Quarters of the World, Eisrope and Africa. The Breadth of the Straits in this Place is meafured at fomething lefs than 7 Ls.

Cape Spartel is the utmon Angle of the Land of Africa N.W. as Cape Trafalyar is of Europe S.W. It is a loug extended Promontory of Land, fhooting out far into the Sca, and may be feen off at Sea near 10 Ls in clear Weather, tho the Land it telf is not very high.

At the very Extremity of the Cape there lics a Rock, that breaking off the Violence of the Sca, which (the great Atlantick Occan beating upon it) would otherwifi be very raging. Icaves under its Lee to the S of the Point, a very fate Road with good Anchoring, where you may ride in 12 to 13 Fa . clean landy Ground, and well fhelter'd from northerly and eaftcrly Winds : But it muft be added, that you muft lic ready to pur to Sea, if the Wind veers to the Weft, and efpecially to the fouthward of the W. otherwifc you may be cmbay'd, and on a Lec Shore too: However, if you are nimble in taking the firft Change of the Weather, you may with Eale get out of the Road, and running round the Point take Shelter on the other fide in Tangier Bay.

To the S. of the Cape about a L. you will fee a Hummock on a low Ground, near the Strand, which looks like the Ruins

7 Ls tarther E. 1 are clole to the is Coalt by, behat in 25 Ls runrecet this Point. black Hills upon the Tower of $A$ a Port of Allixhe Nile mult be s the Winds may ns fo frong, that the Port ; thereVindfail W.S W. Alcxandria. To ceftward, obferve
alhalf: but all over in this Haventhe Ground is tharp, that you mult lerve your Cables well, if you intend they thall not cut: you inult tail to the caftward of this bland Rock, and by thote other Rocks. There are $4_{4}$ Gaps like Doors in the Wall of the City, you muft fail towards them, and then keep the greatedt Tower in the City againft the aforetaid Gaps of the Wall of the City, and you need not fear the blind Rocks.

Within the Haven on the E. fide it's foul Ground: On the infide of the wettermoft Caftle the Turks commonly lic, but the biggef Ships for the mott part lie northerly, jutt within the Haven in very foul (iround.

Coming before this Haven in good Weather, the Pilots will come aboard you, and bring you into the Haven. W. of the City is another Haten, but not convenient for great Shps; it ferves ouly for Turkifl, Galleys.

## be Weftern Coafts of A F R I C A, from the Cape De Verde and the Port of Sierra Leon, eulgarly

raits Moutb is Spanith fide, and ; and that this Quarters of the c Breadth of the lefs than 7 Ls .
Land of Africa
It is a long exfar into the Sca, Weather, tho the
cs a Rock, that the great Atlan. c be very raging. a very fafe Road in 12 to 13 Fa. ortherly and caftmuft lic ready to elpecially to the cmbay'd, and on ble in taking the Ealc get out of helter on the o-
fec a Hummock ks like the Ruins
of an old Cafte ; there you may anchor in very geod Ground, a clean Shore, and fhelter'd as before.

From hence the Coaft thrufts out a little to the W. and the Courle to Arzilla is S. by W. io Ls. Here is a Haven and a River, but'tis a barr'd Port: There are alfo teveral large Rocks lying thwart the Mouth of the Haven, which are a Security to the Ships that ride within the Rocks, they lie in a Line N. and S. before the Bar. But you may go in between the Rocks in feveral places, and anchor behind them, as allo between them and the Shore; the N . Channel is the beft and decpeft Water, but neither of them deep enough for great Ships; thare being but about 2 Fa. and a half at high Watcr.

The Coaft hither is low and flat, with a clear fandy Shore; but the Country within thews tiry hilly and mountanous: 10 you mult be cautious not to miftake the Hills for the filt of the Land; if you fhould in dark Weather, or in the Night, you may be alhore before you are aware.

From Arzilla the Coaft fill erends away a litte wefleris, and your Courle is S. byW. to Lar ache 8 L.s. There are lome Rocks on the Shore, orherwite the Coaft is all clear, and good Anchoring in feveral places, even in the open Sca. The shore is better as you go on fouthward, than 4 is more northerly; alfo the Land lics higheft to the Southward. Latacic is a ftrong Sea-Porr, with a great Caftle; it tlands on the River Lectus, on the S. Bank of the River ; the Chamel in, is crooked and tincertain: and fince the Moors have been Matters of it, the

I1.at.s

## Sailing Dieefions for the Weflern Cor

Marks for the Entrance have not becn kept up, fo that no Stranger can go in fecure, nor are their Pilots much to be depeuded upon. But at beft there is no Depth of Water for any Ships of Burden, fo the Haven is not of much importance; but Ships ride pretty well in the Road before the Mouth of the River.

You inay know the Entrance into the Port, by the N. Point having fome Houfes upon it; 'tis a low flat Point, and the Houles, which are but felr, Itand clofe together. From the N. Point runs a Quick Sand flanting S.S.W. into the Sca, which makes a Bar allo to the Entrance, and there is not above ${ }_{3} \mathrm{Fa}$. upon it at the higheft Springs; fo that no great Ships can go in except at Spring Tides. In the Road you have very good Ground, and 17 to 18 Fa. but 'tis no fatic Coaft to ride in an open Road; for upon a wefterly Wind you have a terrible Sca comes in.

The Sca allo fets right upon the Shore all along this Coaft, fo that in tailing by it you muft be carcful to kecp a good Offing; otherwife even in a Calm you may be in danger of going allore, by the mere Courfc of the Water.

From L' Arache the next Port is old Mamora, dift. 6 Ls. the Courle continues ftill S. by W. Herc is a good Haven for Ships of indifferent Burden ; the Coalt isftill low and landy, but not to clean as before, and which is worfe, 'tis without any Marks to guide you in, or to know it by : There are lome Towns on the Shore, but no Churches or Towers, or Stecples to guide the Marince in his Courfe.

From Old Mamora to New Mamora it is 8 Ls, the Courfe much the fame as before, one Point more wefterly; for you go S. by W. for fome part, and then the Land bearing out a little wefterly, you mult go away S.S.W. The N. Side of the Haven looks like a Cape or Point, and the City feems as if it flood in an Illand off in the Sca. Herc is a very good Road before the place, with good hard holding Ground, but a little too much Depth of Water, for you have 20 Fa. within a litele mile of the Mouth of the Haven; but then you have good gradual Shoalings to the Shore, for you come to 15 and to Fa and have $5^{5}$ Fa. within a Stone's Caft of the Shore: But for the Realons above, it is not prudent to let your Ship lic too near the Shore.

Off of the Harbour is a high broad Bank of Sand, which is not eafily feen at a diftance, tho it lies dry, becaufe the Coaft is ingencral low next the Water: As you fail by it to the fouthward, you will perceive it plainly.

The Port is not cafily feen as you go by, for the Opening of the Cibannel lies to the fouthward cafterly, and the North Point or Bank of the River lies flat and low: But keep on, and as y ou come nearer the Shore, you will perceive a Mark fet up to guide towards the Entrance of the Haven; it is a high Pole or Maft ftanding on the high Ground within the Caftle of Mamora, and looking towards the S. If the Weather be clear, you will allo fee the high Tower of Sallece. There is a Bar at the Mouth of the River, where there is at a Spring. Tide 16 to Poor, but the Denth alters often by the working of the

Towcr, the River, and dry at low Water, but a 3 Fa. Ther paft well eno

The Chan Winds off S Strcam runs and fometims

In coning mult bring th the Caftle or S.E. then yo 16 to 30 Fa
Rocks and $S$
for the Mioon.s
Fedale is a tween that a S.W. about hicre and the often taken Ficdale by, lics below o you will lect ward of Fecdal are a little of you are nigh,

From Silll within and do out mark'd I of fuch finall Hummocks,
Between th which ftands as you lail ne

To the fou cr; and wher Illand of Fed from you, th run right wit of the Shore, the Inand an may anchor it the Illand in Riding is, w by W. from fipikc's lengeth will ride caty, Wind is any t round the Po Sca than any into 12 Fa.al lying $W$ by $s$

## Be Weflern Coafts of Africa.

Tower, the Caftle flands upon a ifing Ground clofe by the River, and is wall'd round; the Haven is large, but is almont dry at low Water, having not above a Foo: or Foot and halt Water, but at high Water 1 ; to 14 Foor, and at Spring.Tides ${ }_{3}$ Fa. There is a Bar before it, which at high Water may be palt well enough; but at low Water it itops all Paliuge.

The Channel fliftis often, occalionad by Storms or high Winds off Sea, and Frefles from the Land; fometimes the Strcam runs by one of the Points, bometimes by the other, and fometimes in the midde.
In coning to an Anchor in the Road before the Town, you mult bring the high thick Tower which ftands on the Foint of the Caftle over the S. Point of the River, bearing from you about S.E. then you may anchor as near, or as far off as you pleafe, in 16 to 30 Fa ':is all clean black Sand, tho the Shorc is all full of Rocks and Stoncs. When you come to an Anchor, fire a Shot for the Micors to come of to you; they undentand the Sigual.
Fedale is an Ifland upon the Coant ; the oppofite Land betwecn that and Solle e is rugged and uncecn. The Shore lies S.W. about 9 I.s; the Scrand is black, with Rocks festecr'd here and there; and thote Rocks are likewife black, and offen taken for the Illand it felf: The only Mark to know Ficdale by, is a Wood to the northward, dift about I. it lics below on the Land, !ooks like a Barn, and in failing by you will fee the Land beyond over the Wood. To the northward of Fedale'? Ls, is a litele roundHummock, which when you are a little off Shore is feen above the reft of the Land; but if you are nigh, 'ris hid by the double I.and.

From Silllee to this mand of Foctel', the Iand is all high within and double; and the Coaft being fo very bare and with. out mark'd Places, fipecial Notice fhould thercfore be taken of fuch fimall Marks as there are, fich as the Black Rocks, Hunmocks, E̛c.
Berween the Woodand the Ifland is a little Moori/h Town, which ftands allo in a Wood; you may lec part of the Walls as you tail near the Shore ; the Town is calld Alonfofs.

To the fouthward of Fectale the Land begins to appear highcr ; and where the high and low meet is a Cliff, by which the Ifland of Fedale is cafily known: for when the Cliff is S.S.E. from you, the Ifland is fo too. To go inso Fedale, you mult run right with the Wood, till you come within Icfs than a 1 .. of the Shore, and then along by it; fo you will run between the Illand and the Main, and cannot mifs the former ; you may anchor in the Bite between the Strand and the N. Point of the Illand in 6 to 8 Fa. but 'tis a bad place to lic in: The beft Riding is, when the Point of the Mland bears N.N.V. and N. by W. from you, and the Wood E.N.E. and Moniojs a Handfpike's length open to the northward of the Wood. Here you will ride caly, haviug a Cable faft on the Ifland; but when the Wind is any thing wefterly, the Sca comes rolling in to hard round the Poiut of the Illand, that tis lafer lying in the open Sea than any where withan the lland: But you may ailo run into in Fa. and anchor there, with the N. Point of the hand lying W. by S. from you; 'tis fater lying.
good gradual Shoalings to the Shore, for you cone to 15 and 10 la and have 5 Fi. Within a Stone's Caft of the Shore: Bue for the Reafons above, it is not pradent to let your Ship lic too near the Shore.

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The lort is not eafily feen as you go by, for the Opening of the Channel lies to the fouthward calterly, and the Noreh Point or Bank of the River lies flat and low : But keepon, and as you come nearer the Shore, you will perceive a Mark fer up to guide towards the Entrance of the Haven; it is a high Pole or Maft flanding on the high Ground within the Caftle of Mamord, and looking towards the S. If the Weather be clear, you will allo lee the high Tower of Sallie. There is a Bar at the Mouth of the River, where there is at a Spring. Tide 16 1017 Poot, but the Depthalters often by the working of the Sa; allo the Sand fhatis, for in the Spring commonly the Fntrance lies E.S.E. or thercabouts, and in the latter cod of Summer more eafterly.

In the Summer the Wind generally blows here from N. by E. to N.E. along the Coaft, fo that the Current runs fouthward: In the Winter the Shore is boifterous, the Wind generally S.W. andS S.W. off Sca; but as foon as it begins to come more to the S.or S E. the Shore is fafe and plealant; however you thould be carctial to kecp a good Offing in thete Seas, for the Winds foon thift from the S.E. to the S.W. and W.S.W. and thelcWinds commonly bring foul Weather ; and then as it comes about to the W.N.W. or N.W. the good Weather ordinarily returns.

This Road of Mamora for about a L. off before the Town, is pretty good, and youlhave is to zo Fa. clean fandy Ground: From thence to Sallee the Coant gocs away S.W. by S. and S.S.W. Low Ground, a plain and even Coaft all the firt part of the way, with double Land, and a fandy kind of Strand; but about midway between Mamora and Sallee it rifes, and from thence fouthward you have many black rugged Iteep Rocks with litele Ilills intertiperied; to that when you are at fome diflance from the Shore, 'tis not cafily difecrn'd that the Land is double.

If the Weather is cicar, you will cafily difecrn the great Tower of Sallee as toon as you are a L. from Mamora; and by that Token, when you are failing by the Coaft, you know you are palt Mamora. The Shore continues thus rocky and flecp, till you are paft Fedale, and lome time afterwards; only that between that and Sallee you will perceive now and then fome white fandy Banks among the Rocks, but to the northward of Salle'e nothing but perfcet Rocks, and a dangerous Shore ; thercfore kecp out to Sca.
N. B. From Cape Spartil to the River of Sallee the Courfe is all S. by W. 40 ls.
The Town of Sallee lies on the N. fide of the River upon a low tandy Point, with a little Tower in the Town; there is a Cattle on the high rocky Point on the other fide, with a fimall

To the cr ; and w Ifland of from you, run right of the Shic the Ifland may anche the Ifland Riding is, by W. fro tpike's lens will ride e: Wind is an round the Sca than into 12 F lying $W$. From th out about very high Bay is a Shore; be Guard. Wood, an 2 Ls from Ground. Depth the If you on board, in as you upon the but is only down her fides abov

Three the Strand ftretch'd of them al feen far of be feen th

Two I red Cliffs, feveral pl: lics Azan place call

On the into the Shore, y Strand; 1 about, no the Grous choring.
c to 15 Shore : our Ship which is he Coalt ic fouth.

Opening c North pon, and rk fer up figh Pole of Ma ec clear, a Bar at Tide 16 $g$ of the nuly the r cad of
N. by E. vard: In dlly S.W. more to bu thould e Winds cWinds about to urns.
c Town, Ground: S. and Apart of and; but und from , Rocks at fome he Land
he great ra; and ou know s rocky erwards; now and ut to the a dangec Courfe ver upon there is th a finall

To the louthward of Fitale the Land begins to appear higher; and where the high and low mect is a clifl; by which the Ifland of Fedale is cafily known: for when the Cliff is S.S.E: from you, the Illand is to too. To go into fectale, you mult run right with the Wood, till you come within Icts than a 1. . of the Shore, and then along by it; fo you will rum between the Ifland and the Main, and cannot mifs the former ; you may anchor in the Bite between the Strand and the N. Point of the Ifland in 6 to 8 Fa. but 'tis a bad place to lic in: The beft Riding is, when the Point of the Mand bears N.N.W. and N. by W. from you, and tuc Wood E.N.E. and Moniofs; a Handtpike's lengeth open to the northward of the Wood. Here you will ride caty, having a Cable fint on the Ifland; but when the Wind is any thing wefterly, the Sca comes rolling in io hard round the loint of the Ifland, that tis fafer lying in the open Sca than any where within the Illand: But you may alfo run into is Fa. and anchot there, with the N. Pome of the lland lying W. by S. from you; 'tis fafer lying.
From the faid N. Point there is a Riff of Rocks, winch floot out about Musket-Thot into the Sca, but they are moft of them very high above Water: The lland it felf is very flat, and the Bay is a fair fandy Strand, to that you may ballaft from the Shore; but the Natives are very treacherous, fo be upon your Guard. To the northward of this Ifland, over againft the Wood, and fo all along to Salle',' 'tis all thoal Water till about 2 Ls from the Shore, there you have 23 to 25 Fa. clean fandy Ground. Over againft the llland the Ground is foul, but the Depth the fame.
If you would trade at Fcdale, you mult fetch the Moors on board, for they have no Boass, to you muft anchor as far in as you can; when you are in, youll fee a high Hunmock upon the $N$. Yoint of the Ifland, it looks like a ruin'd Cafte, but is only a Clufter of Rocks. The Tide flows right up, and down here 7 to 8 Fa. and no where upon the whole Coaft befides above $2 \frac{1}{2}$ to 3 Fa. the realon is not very caly to know.

Three Ls from Feildel S.W. by S. or S.W. and clofe upon the Strand, lie the Ruins of an old Town call'd Anafe; it is ftrecth'd along upon the Shore, and has teveral Towers, one of them almoft as thick and high as that of Sallee, but is not feen far off: The Wood to the northward of Fedale may alio be feen thither.

Two Ls to the weftward of Anafi is a flecp Point, with red Cliffs, which look like Houles; you will liee the like in feveral places on this Coaft. From Ahafi S.W.by W. weftroly lies $A z a m o r$ dift. 18 Ls, and between them another decsy'd place call'd Liones.

On the E. fide of $A \approx a m o r$ there runs our a fhari Point firs into the Sca; and as you come from the northwad along Shore, you fee the Town fanding high behod it up a the Strand; fo that it is feen over the Point. The shore is hat all about, not above 8 to io Fa to a L and half fiom the Shorc: the Ground is foul and rocky. to that there is no good anchoring.

A litele patt the Town weftward you will fee the River, and lome Towers near the Mouth of it: on the low Grounds to the weitward of this River lies the Town of Maflagam, or Mazuron, dift. . Ls, on a white Strand, and clote by the Shore ; ${ }^{2}$ tis mhabited by spaniards and Porturatele, but the Moons ane Mafters of the Coalt: it has no Tower of Note, and at a diftance looks eniy like white Spots upon the Land: when yon are over aganft it, you will tee the high Tower of Tyo to the fontinward, 'tis an old min'd Tower much like that ol' Amefe. Ahazagh lics in Lat. : 2.56.

A hete to the weftwad of dalfaram, and at the Point of the Bay, a great La or of Rocks thoot out moto the Sca near a L. at low Warer they are to be teen, bae ar high Water they are funk, and theretore dangerous.

Tho this is a large Bur, there are but few places where the Ground is clear; hat that if you are not well acquanted with the liace, you will do well to take a bilot. The bedt Road to lie in. is where the E. Pomt of the Bay lics E. and the W Point $N . W$. from gote. $\therefore B$. Here are $p$ ortughe Pilots to be mad.

About a L. to the weftward of Tyon lics a very flecp Point, as you come along Shore from the caftward; you tee no Land whout this Point till gou come very nigh it: But whon you begin to bring it upon your Broadfide, then you will fee come our to the wettward of it a grear lyuare Cliff very remarkable, h.sing white and red Spots apparing at a diftance, as if it were a Wall: this is the fammus Cape libinen.

About; Ls to the wetward of this Cape, upon a high I and, ftands a litile Tower with a Valley near it, 'us calld Cidfa Cin exatern: and about \& Ls kuther W. upon the lane high I.and tands a Houlc calld Emendra; but you camot tec ir, unkes You ate near the Shore. From Cape Bibuco to Cape C'antin, the Shore lics W.S.W. about 9 Les.

Cifec Cimtin is a plan eren Point; when you are to the northward of it, it appears flat toward the W. In going off to tewward there ftands a timall Tower upon it ; but fomerimes 'tis hardly dicern:ble. If you come from the northward, and are bound to $S_{, ~ 2}$ a, your Courfe is $S$, and $S$. by $E$. off from Gape limeat : then you will tall with the Land 4 or 5 ls to the caftward of Cape (anton: But if you keep a more wefterIy. Courfe, you muft run on till you arcin Lat. $32 \cdot 30$. then Cape $\therefore$ Oi:th lics duce E . from you. "Tis better to tall a little to the E. than to the W. of the Cope, becaufe the Winds are generally nertherly ut that Place. In failing thus caftward of the Cape, the Coalt lies S.W. by W. and S.W. plain even Land all along

The Town of Tyo flands to the caftward of the Cape about is Is, having a white Tower by the Sea-fide: And farther to the wetward, betweon Cafar Cavaglero and Cape Cantin, is a hittle bay, havims many large black Rocks fcatter'd about up. oit the Strand, looking at a diftance like Wrecks of Ships. From the Buy to the Cape 'tis a fine even fandy Shor c.

In lithog round the Cape, you muti carctilly avoid a Ledge of Rocks which thoot out from it far into the Sca; to aroid

## or the Weflern Coafl of Africa.

the River, $w$ Grounds alfagam, or the Shore : : Moris ala nd at a difwhen you Tyn to the : of Anafi.
ic Point of Scancara Water they
$s$ where the cd with the Road to lic It W. Point :lots to be
flecp Point, Ice un Land when you ill fee come remarkable, as if it were
a high 1 and, Pd Cata Ciae high Land ec if, unictis ape Cantin,
are to the In going ofl r fomettimes hward, and E. off from or $\mathrm{s}_{\mathrm{l}} \mathrm{s}$ to more wcftero. then Cape little to the ds are genctward of the o cren Land
: Cape about nd farther to Cantin, is a d about up. s of Slups. or c. roid a Ledge ca; to avoid
of the Ifland: Thote of them which are neareft the Iflard, are always above Water, the others not, to take geod leced. If you come from the northward, and would go in behind the ithand, you muit run between thole Rocks and the Illand clofe ly them, Icaving them on your Laboard-fide, where you will have 5 F. On that fide of them are other Rochs to be fén at low Water only; when you conee to the outer End of them, you may luff up by them towards the Main, and hate 3 Fa. Water good Ground, but 'tis but a very indifferent place to anchor in, if it comes to blow, becaute of the violent Breach of the Sea upon thofe Rocks; but farther on the Starboardfide, mider the Ifland, there is good lying at $2 \frac{1}{\frac{1}{2}}$ Fa. Water.
N. B. The Illand of Magaiora lies in L.at. 31. 18.

From the S. cond of the Mland lies a lietle Rifl towards the main Land; and to the fouthward of that, another Bank runs a Ic.ague and half mito the Sca. In going out at the $S$. cond you mult rum along by the Shore of the Main, till you are patt that Riff; then hecpalong by the Bank, and you will toon be in deep Water, and may tail where you will, having from to 10 F.a and more.

Cide Coer lics S.S. W. trom the Point of Sofira about ; I Is, and $=5$ to 26 from Nogodor: The Coalt between is a fine fimdy cicu Strand, the Land doubte, and in fome places very high. About $\because$ or $\operatorname{l}$ Ls to the northward of that Cape lies Cope Tufficlano, under which you may rmi for E. and NE. Wimds, and have good Giound and tufficiene Sheler.
Sitts of the Taits.

A S.S W. and a S.W. by S. Moon makes full Sea on all thefe Coafts.

## Cour /is and 7) if/ancis.

From Cape Spartel to Cape Cantin the Courfe is S.W. fens. tharly ${ }^{\circ} \mathrm{F}$ Ls.

From Cape Cantin to the fouthward Cape calld Cape st. inncent, on the Coant of Portigal, the Courte is due N.yols.
From Cope Cantin to Tenenffe in the Cianares, the Courfe is S.W. by W. $14^{8}$ Ls.

From Cape Cantin to Cape Gier, the Courfe S.S.W. so I.s.
From Cape spatal to the Madiras, the Courle is W. by S. and W.S.W. 200 Ls

Cape Geer is a remarkable Point of Land, appearing from the northward lower than the man Land, and to the touthward it lies llat with the Sea, and yet it is fecm 3 or + L.s off: There is a high Hunmock about ${ }_{4}$ Ls to the northward of it within the Land, which is teen much tarther. To the northward of the Cape the Land is high, bur youfe no Land to the fouthward of it, no not tho you are near the Cape. There is a great Rill which rums out from the $N$ fide of the Cape a great way into the Sea, fo that you camot approach the
arc bound to Saftic, your Courle is S. and S. by E. off from Cape l'incent; then you will tall with the Land 4 or 5 Ls to the caftward of Cape Cantin: But if you kcep a more wefterIy. Courf, you muft run on till you arcin Lat. $32 \cdot 30$. then Capc Ciation lics dac E . from you. 'Tis better to fall a little to the E., than to the W. of the Cape, becaufe the Winds are gencrally northerly at that Place. In failing thus caftward of the Caipe, the Coart lics S.W. by W. and S.W. plain even Land all along.
The Town of Tyro flands to the caftward of the Cape about 1o L.s, having a white Tower by the Sca-fide: And farther to the weftward, between Cafa Cavaglero and Cape Cantin, is a hittle Bay, haviny many large black Rocks featter'd about up. on the Strand, Iooking at a diftance like Wrecks of Slups. From the B.y to the Cape 'tis a fine even fandy Shor c.

In titiling round the Cape. you muft carcfully avoid a Ledge of Rocks which thoot out from it far into the Sca; to avoid which keep a good Offing, clipecially in wefterly Winds.

From Cate Camtin to the N. Point of Saffa the Coaft lies S. by W. about 6 l.s: Between them the Land is ftecp and rocky, tho the Inland is even and plain.

About a L. to the fouthward of the Cape lies a Shoal by the shore, calld the Collen Bank To the northward of the Bay of Sag the I and is high, double and uneven; but to the touthward it is phain and even: So the Difference is a Dircerion, when at a diftance, whether you have over-flhot the Town or not.

If you would anchor in the Road of Saffo, you muf bring the N. Point. Which the low Tower ftands upon, N. a little wefterly from you; then you have 18 Fa . Water: If you would go farther into the Bay, bring the faid N. Point N.N.W. a little northarly; and then the northermof of the two N. Points will be about a Ship's lengeth open without the fouthermoft : Run then to the fouthward, till the high fipuare Tower, Which ftands below at the handing Place cecn with the Town Wall, comes righr orer a Tower which is faft to the Wall; and rhen come to an anchor, or clie flay till you have the high Cattle of Sala E. by S. and E.S.E. from you ; there youwill have 16 to in Fa. finc hady Ground. Or you may run into the Bay till the N. Point bears N.W. and NW. by N. from you, therc you have 15 to 16 Fa . N.B. Thete are all Suminer Roads, but in Wenter you mult kecp farther off in 28 to 3 Fa. where you have coarice fandy Ground.

Yon may rum boldly moto the Road of Saffa by night or day, kecping the Caffle E.by N. and E.N.E. There is no mancr of danger, unicts you will rum bump a-fhore.

The S. Point of the Bay lies about 2 L.s from Saffic very low. and abour = Ls more fonthward lies another Point, but theop and rocky. Here comes in the River Tenciff, which cones from Alor ocro.

Thirtecn or tat Ls S.S.W. from the Point of Saffa lics an Mand calld Mograt', or Aloy dirat ; and there floots out a great Ledge of Rocks fom the Main oppofite to the NE. cnd
l'incent,
From is S.W. b from
From and W.S.

Cape
Calar the nort ward it There is withn t! ward of the fouth is a great arcat wa Cape ; it to Sc., a

Sallta 8 Ls: Fiv upona of Rocks the Coal

If you the lioor houtes or the Rang when Cul you my Winter, Road, y till you almoft b Shorc. y and N.N Road by jour utn

You cfipecially munt be i the faw againt a fecn a go kecp you to Sca if

About S. by W. Ciilon, is the Mout by S. 181 Cupe cha W.S.W. n

## off from

 - 5 Ls to re wefterhen Cape tic to the are gencard of the ven Land ape about farther to utilu, is a bout up. of Ships. c. 1 a Ledge to avoid ids. Coalt lics tcep andShoal by ard of the but to the a Dircc. -hhot the
puft bring $\therefore$ a little : If you t N.N.W. : two N. : fouther c Towcr, he Town Vall; and the high c youwill run into N. from : all Sunin 28 to
ht or day, o manaer
affia very coint, but ff; which
a lics an ots out a NE.chd
lincent, on the Coalt of Pertugal, the Courfe is duc N.yo Is.
From Cape Cantin to Tinerifie in the Callames, the Courfe is S.W. by W. tife Ls.

From Cifec Cantin to Ciape Ciecr, the Courfe S.S.W. so Is.
From Cape Spartel to the Madras, the Courte is W.by S. and W.S.W. 200 Ls.

Cape Spart is in Lat. 35. 52. Cabi Cant:ll in 32. to.
Cate Geer is a remarkable Point of Land, appearing from the northward lower than the main Land, and to the touthward it lies that with the Sea, and yet it is leen 3 or 4 I.s off. There is a high Hummock about ${ }_{4}$ Ls to the northward of it withn the I.and, which is feen much farther. To the northward of the Cape the Land is high, but you fee no Land to the louthward of it, no not tho you are near the Cape. There is a great Rifliwhich runs out from the $N$ fide of the Cape a great way into the Sea, to that you camot approach the Cape; it you come from the northwad, you nutt ftand of to Sca, and go about it.

Santalisuze hes S.E. by F. and E.S.E. from the Cape 7 or SLs: Five or 6 Miles to the northward of it is the Nionis (cattl, upon a very high Land; and from that Catte runs a Ranse of Rocks, about Gun-fhot in length into the Sea; the reft of the Coalt is clear.

If you would anchor here, you mult run into the Bay till the Moors Cafile bears $\mathbf{N}$. from you, and the Chriftans lackhoutes or Ware-houtcs N.E. then you are to the fouthward of the Range of Rocks, and have 7 to 8 ta. The beft Road is When Citer Gece bears N.W. by W. from you. In Summer tme you my come to near the Shore here as to 6 or 7 Fa . but m Winter, keep your Dutance. In dailng trom the Cape to this Road, you mult be fure to run along by the Land of the Cape till you come betore the Caltle, becaufe the northerly Winds almolt blow Trade here; and if you keep too far trom the Shore, you may be oblog'd to tetch it up agan from the N.E. and N.N E. to recover the Shore. N. B. It you come to this Road by night, you mult come no nearer than 12 to $1+$ Fa. at your utmolt peril.

You muft be very careful alfo in your anchoring here, and cfipecially to have all your Anchors ready ; your tmall Bower muft be lad before the Land-Wind, and your other Anchors to the feaward, and your Shect-Anchor brought out tothe SW. aganit a Storm, which frequently happens here, and is torefeen a good while by the lwelling and rifing of the Sai: Alfo kecp your Fore-fail to the Yard, that you may be ready to put to Sca if you fhould be forced from your Anchors.

About is to in L.s from Ciafe fieer on the Coalt $S$. and S. by W. lics C'ape' ('ilon ; and S.S.W. about 10 Ls rom Capi Gilon, is Ciafe Non: There comes in the Rever ${ }^{\text {D/meders. }}$ II the Mouth of which is a very good Road. From hence S.W by S. 18 Ls lies dimfelli, and thence S. the Bay of Allbach and Ciper C.babi 17 LS ; from licnce the Coalt to Cape Biajuder is W.S.W. near soLs. All the Land on this Cont appears dico.

## Sailing Directions for the Coafts of the

late and barren; no body goes on Shore, but makes the beft of their way ferward.
N. B. Cape Geer lies in Lat. 3o. 1o. Cape Non in 2 8. 36. Cape Badajor in 26. 17. and from Cape Geer to Cape Ba-

## Sailing Directions for the Coafts of the



HE Illand of Lancerotta is one of the Canaries; it lies from Cape St. Vincent in Spain S.W. and SS.W. 180 Ls. It has fevcral Havens and Roads, but cfipecially one Haven is Land-lock'd for all Whats; where you come in from the northward, and ride in $1, t 0=5$ Fa. and go out again by the fouthward. At the E. fide there is allo a good Road before the Town of Lancerotta, bat no Haven; and there lics a Bank to the N.E. of that Road; therefore to avoid it you mult run about to the fouthward of the Illand, where you may anchor in 11 to 12 Fa On the fame S.E. fide of the Ifland there are two other $\mathrm{Ha}^{-}$ vens, a large Camon-hot from one another; the northermolt is calld Porto de Naos, the fouthermof Porto de Cavallos; but they are both very ill Havens, and dangerons to go into : The firft, which is the decpeft, goes in between two Ledges of Rocks: There ftand two Heaps of Stoncs for Beacons, like the $I$ Varders of Noraiay; thete you muft bring into one, and keep them fo, and fail fo right thro between the two Ledges of Rocks. There is alfo a Bar in the Paffage ; the fhoaleft of it is not above a large Ship's lengeth over, to that you are foon over it: It has but 7 Foor ar low Water and 17 ar high Watcr. As foon as you are over, it decpens to ${ }_{3}$, and to $4^{\frac{1}{2}} \mathrm{Fa}$. Then you mult edge up N. and then again pretently N.E. and anchor behind the Rocks which lie to the northward of the Bar. In the Channel the Ground is rocky and uneven; if a Ship thould ftrike, the would infallibly plit to pieces. The Ledge is the fame without as it is withu, very ftcep, fo that you may come clofe to it; without the Haven 'ris all clean fandy Ground, 5 Fa.to 5 : At high Water, with the Wind off Sca, here goes a great Swell, but the Winds generally blow from the N . and N E. fo that 'tis almoft always finooth Water.

Porto de Cavallos, which is the other Haven on that fide, is very narrow, and lies among the Rocks, which are to the Scalwards of you: The Haven is lietle more than a Cable's Jength over, and from the Entrance to the -min Ind about a Cable and half; and the Mouth of it is ur: oroad. The Rocks on both fides fhew themfelves ar low Water, but at high Water they are cover'd for a good way.
Between thete two Havens lie two little Illands: At high Water you may go thro' on the infide of them into 'Porto Cazallos with Boats, but not with Ships; and at low Water Boats cannot pals, for it cblos dry. Y'ou will lec the Ruins of an old Caftle on the fouthermott of thofe iittle Iflands, which was formerly demolifh'd by the Euslifl). From the S. fide of the lland fhoots off a Riff, and to the fouthward or weftward of that les the Bar, which is not above 10 Fathom broad.

So that whet to be an Inan you come nc Road you mt Icaving them about N.W. I to 12 Fa . then S.S.E. from y very good Rc Road is call'

The N.E. the N.E. Poi dift. 14 Ls. before the T The beft of Town, in 20 riffe lics N.N Pica Tener Road of Sa llland of Ci Ls. There Inlands ; and Road off of Storm from comes in fu to flip their Sca, or get as the Wind

Eight or , on the N.W. ing W.S.W. you mult an being a Roc: fo that the may fce int of the 'Dom 40 Fa. and Town. If Ground, a Lapania.
'Tis need Ship, when dangerous 1 go out to S

There is Ships may

## Coafts of the Canary Jflands.

beft jador, in a Line from N. to S. is i2o Ls; but as the Coaft guides the Sailors, 'tis near i45 Ls.
On the Coaft of Morocco and Sanhiga a S.W. and a S. Moon makes full Sca.

## - Coafts of the Canary IJlands.

So that when'ris 5 ar 6 Ls N.W. or S.E. from you, it Temes to be an Ifland feparated above a Mile from the otier; but as you come nearer the low Land thews it felf. To go into the Road you mult fail about the Point, along by the Ifolettes, leaving them on the Starboard-fide, till you bring the Caftle about N.W. by N. from you, and there you may anchor in 8 to i2 Fa, then the N. Point will bear N.E. by N. and the S. Point S.S.E. from you. At the S. cnd of this Inand there is another very grod Road for foutherly Winds, in a fine fandy Bay; the Road is call'd Malfapalomba: There is allo good watering.

The N.E. Point of Tencri/f, calld Paita de Nago, and the N.E. Point of the Grand Canarics, lic N.W. and S.E. dift. 14 Ls. There is a Road on the S.E. fide of Tencriffic, before the Town of Santa Craz, where is a fair fandy Bay. The beft of the Road is a little to the northward of the Town, in 20 to 24 Fa. and then the lid N.E. Point of Teneriffe lies N.N.E. from you, and the S. Point S. by W. When Pica Tencriffe is W. from you, you are open before this Road of Sauta Cruz; and when you lie in the Road, the Ifland of Grand Canaries lies S.E. from you about in to is Ls There are no Havens or Crecks in cither of thefe two Iflands; and theretore, tho the Roads are good, and this Road off of the Caftle of Santa Criaz is the bed, yet if a Storm from off Sea happens, you ride very hard, and there comes in fuch a grown Sca, that the Ships generally chutic to flip their Cables, and run out to the S.E. and fo go off to Sca, or get under the Lee of the Griand Canaries, according as the Winds are.

Eight or 9 Ls from the N.E. Point of Punta de Nago, and on the N.W. fide of Teneriffe, lies the Road Garvibica, bearing W.S.W. and S.W. by W. To lie right before the Town, you mult anchor to the weftward of the Crofs calld the Lion, being a Rock in the Shape of a Lion, having a Coots on ir; fo that the Rock mult bear S.E. by E. and S E. Then you may fee into the very Streets of the Town, thro' the Cloitci of the Dominicans; there you have clean Ground in 36 to 40 Fa . and the Pica Teucriffe lies over the W. cud of the Town. If you go nearer than 25 to 26 Far you hare foul Ground, and fo it is all welward towards the Riff of Lapania.
'Tis necdful to have S.iils and Auchors ready, and a cloar Ship, when you ride here, in cale of a Storm; for this is a dangerous Road, and the only Remedy, as taid before, is to go out to Sca, or to thift Roads to fome of the other lllands.

There is indeed a little Haven at Coirrichica, where a few Ships may go in ; but you mutt have a Pilot then to carry you in while te is fair Wearher, in a Storm you will find there

Ground. s Fa. 10 ; : At high Water, with the Wind off Sca, here goes a great Swell, but the Winds generally blow from the $N$. and N E. fo that 'tis almoft ahways timooth Water.

T'orto de Cavallos, which is the other Haven on that fide, is very narrow, and lies among the Rocks, which are to the Scawards of you: The Haven is litele more than a Cable's length over, and from the Entrance to the main Land about a Cable and half; and the Mouth of it is not broad. The Rocks on both fides fhew themfelves at low Water, but at high Water they are cover'd for a good way.

Between thete two Havens lic twolittle Mlands: At highWater you may go thro' on the infide of them into Porto Cazallos with Boats, but not with Ships; and at low Water Boats cannot pats, for it cbls dry. You will fec the Ruins of an old Cafle on the fouthermott of thofe little Mlands, which was formerly demolifh'd by the Eusli/h. From the S. fide of the lfland fhoots off a Riff, and to the touthward or weltward of that hes the Bar, which is not above 10 Fathom broad. Upon the main Land alfo are two little Beacons, as at PPorto de Naos, which you mult bring into one ; and then keeping them fo, hail right in. At high Water and at Spring-Tides too there is not above 12 to $12 \div$ Foot Water ; and the Mouth of the Hawen where you muft go in, is very bad Ground, nothing lut Rock'; but whon you are in, 'tis clean fandy Ground, where you may lic without any danger. At the higheft Water mofl of the Rocks in the Entrance are cover'd, and they row over then in finall Boats; but at low Water there is not above 12 to is Iuches Water, to that a Ship's Boat cannot go in or cult.

When yon are in, you lic Land-lock'd for all Winds, and tho it thould blow very hard, the Water is always fimooth.

N'. P. In both thete Ha: anc a S. by W. and N. by E. Moon makes fill Sca. They who come here mult be provided "rth frefh Water, for they very rarely find any here; nor has the Illand cither Frut or Wine.
There is a little Mand beeween Lailcerotta and Forterentha, cilld the de Lebors; it is sery foul on the N.W. yet youmay anchor on both fides of it in 15 to 20 Fa . as alfo in -F. About Camon-1hot S.W. by W. from the W. Point of it, you mis anchor Land lock'd for all Winds except a N.N.W. and S.E. The Coant of Purtezentura at the N.E. end towards this thand is very foul, with feveral Riffs lying out, on which the Sca breaks cxccedingly ; and by the Breach of the Sea upon them you will know them. 'Tho thete Inlands are not much uled in Navigation, 'tis needful to know the Dangers that ate about them, that Ships if forced in by necelfity may go fite.

Wht :iom fonterna, has the man Ihand, from which the edt ahe their Name, the Giand Canaries, dift. ig Ls ; the Ruad is on the E. fide of the Ifland, behind the N.E. Point, thwart of a Caftle. The Land of the faid Point is very high, Heha long low Strand or Shore ruming out to the Main.

Light o on the $N$. ing W.S.W you muft bcing a R fo that t] may fee it of the $\mathcal{D}$ 40 Fa. an Town.
Ground, Lapania. Tis ne Ship, wh dangerous go out to There Ships may in while is no vent of the Pa brcaks co dangcrous 5 to 6 Fs your Cab otherwife Cables a-1 Anchor a wind Ebb fir for Sum fometimes that a Shi They load here in th

There Garrichic on the S. your may

From Salla Cra the S.E. fic and would to the fou anchor in

Bc fure becaule of narily ride a fimall A ward of $t$ there is th the Tow Ground,

Eight or 9 Ls from the N.E. Ponet of Punta de Nago, and on the N.W. fide of Teneriffi, lies the Road Garrichicio, bearing W.S.W. and S.W. by W. To lic right before the Town, you mult anchor to the weftward of the Crofs call'd the Lion, bcing a Rock in the Shape of a Lion, having a Crofs on it; fo that the Rock muft bear S.E. by E. and's E. Then you may fec into the very Strects of the Town, thro' the Cloifter of the Dominicans; there you have clean Ground in 36 to 40 Fa. and the Pica Tencriffe lics over the W. cnd of the Town. If you go nearer than 25 to 26 Fa , you have foul Ground, and to it is all weftward towards the Rifl of Lapania.
'Tis needful to have Sails and Auchors ready, and a clear Ship, when you ride here, in cale of a Storm; for this is a dangerous Road, and the only Remedy, as faid before, is to go out to Sca, or to lhift Roads to fome of the orher Iflands.

There is indeed a little Haven at Ciarrichica, where a few Ships may go in ; but you muft have a Pilot then to carry you in while it is fair Weather, in a Storm you will find there is no venturing in, for there is a funk Rock on the W. fide of the Paffage in the very Haven's Mouth; and tho the Sea breaks continually upon it, fo that it is to be known, yet 'tis dangerous. When you are in, you are well fecured, and have 5 to 6 Fa. but the Ground is foul, and you mult buoy up your Cables with Cask, to keep them from the Ground, otherwife they will chafe and cur; allo you munt bring two Cables a-head to feaward, befides one upon the Rocks and an Anchor a-ftern faftued on Shore, fo that the Ship may not wind Ebb or Flood. 'Tis a good Fair-weather Harbour, and fit for Summer ; but in Winter Storms' 'ris beft to avoid it, for fometimes there comes fuch a rolling Sea in from the N.W. that a Ship could not ride it, tho the had ten Anchors out. They load Wincs here in the Seaton, but no Ships care to flay here in the Winter Months.

There are three lading Places more, between Tenerifife and Garrichica, viz. Maramela, Retecho, and Oratuma: And on the S.W. of Tencriffe is a little Bay call'd cildif, where you may lic well enough, except that 'cis open to a S.W.

From Teneriffe to Palma the Courfe is W.N.W. is Ls. Sauta Cruz is the chief lading Place, where is a fair Bay, on the S.E. fide of the Ifland : If you come from the northward, and would anchor in rhe Road, you muft run in, till you are to the fouthward of the Head of the Bridge; there youmay anchor in 25 to 30 Fa.

Be fure in the Winter not to come too ncar the Shore here, becaute of the SE. or S.S.E. Winds. In this Road they ordimarily ride moor'd with two Anchors for the Sea Wints, and a finall Anchor a-ftern to keep the Shep right. To the eattward of the Town is a high white Reck" with a Crofs, and there is the beft of the Road. A little to the northwat of the Town is a fair fandy Bay, where is $=7$ to 3 F. Ground, more or lefs, as you lie farther of or fenter; 'ris
c.lld d

## Sailing Dircitions for the

call'd Remmel Rood. When you lic in the Road of llalma, phatimetfe bears E.N.E. from you. On the S.W. fude is another lading Place calld T Tallia Corda.
Thic Illand of Gomera lics about 6 Ls W.S.W. from the W. crid of Temesiffe; there is a good Hasen on the N.E. fide of it, with io fas. Water. There is beter lying here than in any of the ocher Iflands, for 'tis fafe alnoft with any Winds: You

## Sailing Directions for the reft of the Sea Coaj Bajador to the Gulph, of Sc. An

 OST of the Coalt from Point Suhi to Cape BaWh jador is W. and S.SW. From Cape Bajador the
 S.W. Between Badador and Olloguedio are leveral good Capes and Bays tho of little note, riz. T: mn, Givade, Toma Alta, and Rubias. This Coalt is vory rugged, and the Rocks ftanding out together are called the Seern 'Points or Capes. The Bay of Rubias is vey large, with a line landy Shore, and continucs to till you asc paft the Secent Monntrains; and the Bay deCazallos, to Cape ollogucdo: A litele Riff lics all round the Cape, beyond which, ar the S . fide of it, comes in the River Oro, a grat River lying under the Tropick of Cancer. The Comery is one great bare and barren Rock, and the Sun thinng upon the Rocks makes the Heats infufferable; this Land, is calldTerra Bava, or the low Land: 4 Ls to the fouthward, there is a Land-lock'd Bay, calld ignorantly m onir Piot Books Irra Barree; it fhould be Terra Baxa, or j)axez; it is a large Bay, and there is good anchoring in feveral places fecured from moft Winds, ctipecially under the N . Shore of the Bay. There is a Riff of Rocks on the very $N$. fide of it, and a Sand Bank before it: Thele make the Wlace tccurc, for you may run in betwecn the faid Riff and the Sand Bank, in : O Fa. and when you are within the Bay, 'us fate ridng and good Ground.

The Ships which come upon this Coaft a fifling run into this Bay in the Evening for fafety, and fo out to Sca in the Morning. Upon all this Coaft, between Cape Blanco and the Rucr fro exclufive, there is no fre? Water.

From Iria Barree S. lies the Gulph of Sintra, it has a fine fandy Shore all round it, and good Ground, but is open to the W. and W. by' S. Winds. From thence the Coaft lics near W. by S. and you pafis by Terra Arca and 'Playes to the Rio St. Cupriunt, on the W. of which River you will find fome cliffy mands, till you reach Cape Barbis.

From Ciape Barbas S.by W. 10 Ls. lies Cape Carvafonc; the Contt is all the way very foul, and from Cape Carvalime the Coaft is duc S. to the Gulph of St. Aune, being a large Bay with good tandy Gromed.
N. I. A S.W. hy W. and a S.W. Meon makes fill Sca upon

## ircitions for the Weftern Coafts of Africa.

Road of l'alma, the S.W. fide is
W. from the W. the N.E. fide of here than in any ny Winds: You
may indeed lic without before the Haven in 2o Fa. but if it blows, you mult thift Roads : The Road of didifa in Tineriffe lics juft over-againft it E. diftance about o Ls. Palma lics N.W. by N. 16 Ls. and the Ifland of Forro lies S. by W. from Palma 12 Ls.
N. B. A S.W. and N.E. Moon makcs high Water at molt Places in the Cianary Iflands.

## $f$ the Sea Coafts on the Weft Shore of Africa, from Cape ulpho of St. Annc, and thence to Sicrra Leon.

Subi to Cape Baape Bajador the ucido, dift 56 Ls logucico are fevelittle note, viz.

This Coaft is ut together are Bay of Rubias is continucs to till
the Bay de Caics all round the comes in the River of Cancer. The ock, and the Sun indufferable : this and: 4 l.s to the alld ignorantly m ic Terra Basa, or anchoring in feve. ially under the N . ocks on the very Thefe make the the faid Riff and c within the Bay,
a fifhing, run into fo out to Sca in "Cape Blanco and Vater.
intrua, it has a fiue , but is open to the Coaft lics ncar W. yes to the Rio St. vill find fome cliffy

## Cape Carvafone;

 m C'ape Ciarvafone me, being a largebe obliged to turn before you come into the Road. The S. Point of the Cape is very clean, which when you pals you run N.N.E. 3 Ls to Capec Canfiado.

To the N. of Cape Blanco is Slapers Bay, and a Riff rums from the N.E. Point of it. behind which you come to an anchor; and N.E. you go towards Rochle Bay, and thll more northerly the Bay of Angra, or the Circat Bay, properly to called.

This Coaft is call'd Augra Cambaborín; as you pals it, you mect with the Illand of Gimaon, and farther iouthward the Itland of Taffin. There are fome Cliffs on the northward Point of it, and the like to the fouthward; bur you go clear of them all, by giving thefe little lllands and the Coalt allio, a realonable Birth.

Two or 3 Ls from Cape Blanco fouthward, a grest Sand Bank flretclies it iclf our S.S.E. and N.N.W abour 28 I.s, and at low Water the touthermoft ond of it ebbs dry. This Sand is calld Blank Bank.

In going from Cape Blanco towards Aiguil, rum S.E. by S. about 3 Ls, till you are paft the Cliffs of Rod de Sonfi lyiug feaward; then towards the E. foutherly of the Chiff that hes on the Point of the Main, and about two ls flull callward, you come to the Ifland of Arguin: And to the weftward of the Illand lic two long fimall Ilands, the weftermott call'd Obcs. In the Bay of Argutia, on the N. fide, lie feveral Shoals from the Main ; and from Arguin S. cafterly, towards the Long Headr, are fome Cliffs to the leavard; and farther S. you will tee feveral Bear Stables. There is alloo a litte 1 Inand by the Point call'd Torra Gorda, and more to the fouthwards another call'd Monzora.

If your Veffel be fimall, and you go fouthward towards the Wyck and to the River St. Yobne, you may keep the Shore on board, and run along by the Main betwecn the llameds of Sarue and Gomzama, only taking hed of a Raff upon the Coaft of the Ifland Tyder to the Point of Terra Gorda.

At the Entrance of the River St. Yoln are leveral Shoals: but having paffed them, you find a good Haven, called $\%$ 'oint Taffia.

In this Courfe, from Cape Blanco to the River St. \%obs, you mult keep ofl without the Cireat Rank, and take hecd of
$N$. Fide of $n$, and a Sand Bank before it: Thete make the Vhece fente. for you may rom in between the haid Riff and the Sand Bunk, in : O Fa, and when you are within the Bay, 'us hate tidne and good Ground.

The Shups which come upon this Coaft a fifhing. run into the Bay in the Evening for fatery, and fo out to Sea in the Morning. Upon all this Coatt, between Cape Blanco and the Reser ()ro exclufive, there is no frefl Water.
From /ion haries S. lies the Guph of Sintria, it has a fineby s. and you pas hy Tomatran and llases to the Rio St.'Im,in", on the W. of which River you will find fome chaflyMands, thly you rach Cape Reabose

From Core Rathas S.by W. 10 Is. lics Cape Caveafone; the Coat is all the way very toul, and from Cape Com zempone the Co.ll is duc S. to the Guph of St. dime, being a large Disy wath good tandy Gromad.
iv. ASSW. by W. and a S.W. Neon makes full sca upon aillos Conatt.
Ci" Ribico hess from Cape Cimenfonce 16 Ls. To the catward of the Cape rums in a great Bay, whace there is a grood Read, as is allo umder the Cape it telf; you muft go ©f $\dot{\text { i }}$ by the Cape to come to an anchor, bringing thort about: You hate nothing to tear in your coming from the northward,
 you hoar a prodatous noife and whelming of the Sea heretibou, it hang nothung but the dathing of the Currents one arm it amother: Nor are you to be lurprized by the Fall of

## Sailivig Diections for the Sea Coafts of Africa, therice to the Cape de Verde Illand

(T)J N N F Lisatmarkable Point, having one Bank of Sand hang to the tomethward of it. and another to the caltuats: The Coalt trom thence almof to 6. .unsess the Ruce of Sersa' bears foutherly, and then it fulh S.W. will you come to bala. On the Point of the R1wer, betwixt Yomd and lotoceab, are many Places, fich as
 What but they are of wo note to the Sailor, nor of any main Natyano.

Thervir Simk is more properly one of the Mouths of the grear ikerer Aise and thenth be mark id io in the Charts, the 150 Leastucs off of the other, which is the main Stream, and calld Res (i, under There are leveral Reaches and Bays Whin the River to folt; great Shups may go litely 6 or 7 Lis mete, maller Vatiels ;o to 35 L.s, Slopps and Barks 70 to so
make thic
of the romt of tre Nam, mur avour awores ann manaw, hid Riff and win the Bay,
g. rum into to to Sca in Blanco and
it has a finc sopen to the lics near W. the Riso St. d fome chifly

Carculfine: fec Car zullone being a large
full Sca upon
Ls. To the cre thicre is a you mult go gilhort about: he northward, pirchenfive if the Sca hercCurrents one by the Fall of cblos dry + to ${ }^{7} 7 \mathrm{Fa}$. rcmain to come. muft not give d yet you will
you come to the filand of Aggish: And to the weflward of the Ithand he two long limall Iflands, the wettermont calld Obes. In the Bay of Arguia, on the N. fide, lie feveral Shoals from the Main ; and from dreuin S. cafterly, towards the Long Heads, are fome Cliffs to the leaward; and farther S. you will fee feveral Bear Stables. There is alfo a hitte Ifland by the Point calld Terra Gorda, and more to the fouthwards another callid Mon

If your Veffiel be fimall, and you go fouthward towards the U'yck and to the River St. "Fobn, you may keep the Shore on board, and run along by the Main berween the Illands of Sirnle and Comzand, only taking heed of a Rati upon the Coatt of the Illand Tyder to the Pont of Terra Gorda.

At the Intrance of the Rover St golm are feveral Shoals: but having palfied them, you find a good Haven, called lo:ont Taffit.

In thas Courfic, from Cape Blanco to the River St. \%obsin, you mult kecp off without the Cirent Rank, and take heced of the louthern Tail of it which lies dry at low Water; then run calterly by it, ull you come before the River: Youmeny go berwecu the Gircat Bank above-mention'd and the lthand Bankings, and that without danger, being carctulnith your Lcad.

Cape Mirrick is your next Land on the Main: It lics on the S. fide of the River $S t$. \%oly, extending it telf $=1 . \mathrm{s}$ into the Sca, and on the S. fide of it lies a Bank which rums = Ls. farther : There is alfo a Salc-Pan, or I'ond, on the E. fide of the Bar of Cape Mirrick.

Fiom hence the Coaft lics S.E.by S. and S.S.E, till you come to a Sand Bank in Lat. is deg N. To the S. of Cafe' Marick hes 7 imdel, dift. is Ls, and fer cral other fimall Phaces. but of no note for dailug, to not worth our mang.

## At of Africa, from Cape Tindel to Cape de Verde, aidd Verde Illands, incluyize of thofe Iflaids.

ving onc Bank and anothor ence almoft to , and then it int of the R: Places, fich as inuri, and Rio or, nor of any
the Mouths of in the Charts, e main Strcam, aches and Bays bity 6 or 7 Is 3arks 70 to so

Ls, and fimall Boats to many hundred Miles. The Porturucf: Polots give the Depths of Water in the Chamel, and the Setts of the Currents in the feveral Reaches, as alfo whar anchoring in the feveral Bights of thote Reaches. whth an exact Accomit of the Shoals and Sands which lic off of the Points, of which fome lic feveral Ls. tight up and down, as it is in moft great Rivers: Bur there can be no ute of thefe Deferperions in thas Work, no Eituropea Traders having for many Years atemped to hiil up there ; except the $\%$ 'orturuc $/ i$.

The Coaft from the River Seneqal to Cape de' I evele bears S.W. About midway there is a large Bay, late for all Winds; bur the Shore on either fide mutt be avoided as you go in, becaufe of the Riffs which run out at both the loomes.

The Land to the E. of Cape de Vide is low, and as far is you can lec is grown over with low Buthes As you fill in

## Sailing Direilions for the Weffern Coaft

with the Cape you make it like two round Hills with low flat Grounds to the caftward, but to feaward it is feep, and you have 40 Fa. within ; or 4 Ls of it. The two round Hills are not very high, tho they are above the Land in the Bay: There are abundance of Palm Trees upon the very Cape, and upon all the Land about it, which being always green and plealant, 'tis lippos'd gave name to the Cape it felf.

To the weftward of the Cape the Land is all low, and fo flat as not to be feen at a difance; and there are fome Breakers all the way about it from the Cape, fo that it is not advilable to fland in too near, not within to $_{4}$ Ls; tho on Occafion there is decp Watcr within thote Breakers, and you may, as Weather permits, run thro' between the Rocks and the Cape; but there lecms no Occafion for it.

Betw ixt the Cape de Vorde Iflands and the Main there is a large Shoal call'd Purgat Bauk, juft in the Middle of the Pallage ; it fleteches from N. to S. about 60 Ls; the fouthermoft cidd lics about so Ls duc W. from the Cape, and the Waters near the Shoal mount upwards againt one another with a prodigious force and noile.

As youcome from the northward towards the Cape, it appears with the ewo high round Hills as before, the Sailors call them the /\%omans lireafts: The fouthmoft of them is coverd with Palm Trecs, and to the northward of them are other fimaller Hills; fome of them have a few Trecs, but moft of them ate bate. The S. fide of thole two Hills is exceeding fleep, and from thence begins a Shoal which runs along to the vory C.ape it telf.

IThefe lllauds take their name from this Cape; they are calld inl'ortustefic Illas de cadbo Verde, in Spaniflh Los Illbas a St. Lapo, by the 'Dutel) the Salt Jflands, and by wis, as above, the Cuppe de Verde Iflunds. Their Names arc,
lile de Sal, or of Salt.
Bomalifla.
fice de day.
St. Iugo, or St. 7ames.
St. Nitcholas.
c\%ann.
St. Luria.

St. Vincent.
St. Altonio.
1/le de Fuogo, or of Fire ; from the burning Mountain upon it.
Ifle Brava, or Ifle of Rogucs.

The Ifle'de Sal thews very high at a diftance, as you come fom the N.W. but as you come nearer appears lower, and the S. Point is low and round. There is a Rock at the S.E. Point, you mult come no ncarer to it than 8 Fa. but give it a good Birtl. On the N. fide is a River, and on the S.W. a limall Haven, with a little 1 Inand juft by it; allo a good Road about Muteket thot to the fouthward of the W. Point. The Ships ride by a long landy Bay, and there is good frefla Water there, whichicomes down from the Momitains.
From hance to Bona Viffa the Courfe is S.E. 9 Ls. 'cis known by feveral white Banks on the N. fide ; the Land is low and lindy nexe the Sca, but within Land it riles in high Hummocks and linall Hills like Sugar Loaves. On the N. part the Shore is bold, but on the N.E. a low fandy Point runs out above a L. into the Sca. At the N. cud a rapid River runs into the Sc., whech makes tuch Ripplinms as are daugerous, cfipeci-

Houfcs, it is as of that Head is Ifle of May be there you have but you mult kc which the two get no Ground, 15 or 16 Fa . All the N fide ings, is very ro about a mile to low Watcr, anc of the Sca upou Point beariug E: Ground and ta about the Ifland
St. Ingo is du high Land, and good Road, at iland, and lics a Fa.the Shore is but they mull b which will rot S.W. from that of that, Port and beyond th but the Land is
[3 Ls to the and 4 Ls from Bracia, both lit of feccral forts of the S . fide: there is a Hav Ships, and tatc Ifle' de Fwogn, tis difficult to W.S.W. from $B$ Watcr, and is n high upon it, Salors concern is cover'd fo as the Fair Way and Ships may from hence to Caribuec ifland a large Buoy up

The Ifle of On the S. fide Perguica; and the ilfand, lies the W. Point o almoft joyncd
N.W. from fide of it there the Rocks is th

## Weffern Coafts of Africa.

Houfcs, it is as good as a Wharf. A mile to the northward of that Head is the Road. Obferve when the W. end of the I/le of May bears N. by W. and the S. cnd of St. lago S.W. there you have 15 to 16 Fa. in the Road and good Ground; but you mult keep a good diftance from the Cape or Head on which the two ruinced Houtes are, or elle it is to Atep you will get no Ground, for it lies fo uncren, that when you have 15 or 16 Fa a Head, you thall have above 100 Fa aftern: All the $N$. fide of the lland. and where you bave fome Shoalings, is very rocky : allo to the northward thete lies a Bank about a mile long, and a I. from the Shore; 'tis almoft dry at low Watcr, and may be known when cover'd, by the Breach of the Sea uponit. On the W. fide of the Mland, the tandy Point bearing E.S.E. 4 miles, you have a Bay, with 11 Fa.good Gromed and Rafe Ridung; and this is the only good Riding about the Inland.

St. Iago is due W. from the Ifle of May about 6 Ls ; it is very high Land, and may be leen far offat Sea; it has allo a very good Road, at le, terasa, which is the chicf Town on the liland, and lies at the E. cnd, where 100 Ships may ride life in It Fa.the Shore is muddy, and a Ship may lic clote to the Cantictivall, but they muft buoy up the Cables to keep them from the Mud, which will rot them looncr than would be thought polfible. S.W. from that Road is Tubaroa Point, and to the weftward of that, Port Reybeirya, a Harbour between 2 Mountains; and beyond that, about l'ortalefa Point, is P'ort Canifon, but the Land is very toul on that ide.
${ }_{3}$ Ls to the weitward of St. Ingo lies the Ifle de Fugo; and 4 Ls from the E. i'oint of Fiogo W.S.W. lies the Ifle of Bract, both litele rocky monntamous Ihlands, but full of Trees of teveral forts. There is a Road at the later, on the W. end of the S. fide: there is good Watcring alfo on the W. fide, and there is a Haven on the $S$. where is Water cnough for large Ships, and late Riding: But there is no anchoring under the Ifle de Frugn, except on the W. fide under the Callle, where tis difficult to come, and dangerous when you are come. W.S.W. from Braza So Ls, lies a Shoal which has but 3 Foot Watcr, and is not above so Fa. long: and the Sea rifing very high upon it, there is the more realon to give a Caution to Sallors concerning it, not only as it lies in the open Sca, and is cover'd lo as not to be feen at a diftance, but becaule it hes in the Fair Way between thele Iflands and the Coaft of America, and Ships may be in great Danger of friking upon it in palfing from hence to the Brafle, or from the Coalt of Cuiaca to the Caribbec Inands: for which Reatons it would be well to place a largc Buoy upon it.

The Ille of St. Nicholas lics W. from the Ine of Salt 22 Ls. On the S. fide of it, near the E. Point, lics the Road of Port Perguica; and to the weftward of that, about the middle of the Îland, lics Port Fuder Sal. The Ille Cbaon lies eff of the W. Point of St. Nicholas about halt a L. being a finall Rock almoft joyned to the main Illand.
N.W. from St. Nicbolas ; Ls, lics St. Litcia: On the S.E. fide of it there is good anchoring, in a Bay whech lying withun
the Rocks is thereby made a natural Haven: allo on the S.W.

The the de Sal thews very high at a diftance, as you come f:om the N.W. but as you come nearer appears lower, and the $S$. Point is low and round. There is a Rock at the S.E. Point, you mull come no nearer to it than 8 Fa . but give it a good Birth. On the N. fide is a River, and on the S.W. a limall Haven. with a little lland juft by it ; allo a good Road about Musket thot to the touthward of the W. Point. The Ships ride by a long landy Bay, and there is good frefl Water there, which comes down from the Mountains.

From hence to Rona l'ifte the Courfe is S.E. a Ls. 'tis known by feveral white Banks on the N. fide ; the Land is low and tindy next the Sca, but within Land it rites in high Hummocks and linall Hills like Sugar Loaves. On the $N$. part the shore is bokl, but on the N.E. a low tandy Point runs out above a L. into the Sca. At the N. cnd a rapid River runs into the Sco, which makes fuch Ripplings as are dangerous, cefecially to Strangers. E. and E by N. from the S. Point of Botn Thin, there is a Riff of Rocks, which lic fome above and Whe mider Water tor a L. or a I. ; off from the Point. Under the S.W. Ponnt is a very good Haven, where you may ride in is 510 Fa .

About if Ls from Bomalifi S.S.W. lics the Ince of May. On the W fide of is is the great Salt Pond, it lies about a $L$ within the L.and trom the N. Point, the Shore being a white Sand; and hard by it is a ftecp Head, upon which are two old ruin'd
high upon $i$ Sailors conc is cover'd fo the Fair Way and Ships m from hence Cariubec Illa a large Buoy

The Ifled On the S. fid Perguica; a the Ifland, I the W. Poin almoft joyne
N.W. fron fide of it the the Rocks is fide you may

About 2 L is good anch where you at clan good About 3 northerly of high Mountai S.L. fide ther

## Sailing 'Direilions for the Coaft of the River Gambia, a Roxo.



N coming from Singland to Cap lorde it is to be obferv'd, you firft make the Cithamas, the Courfe S.W. by S. or S.S W Then you mult run between Tencri/fe and 'Palinden beeween'Tence:fic and the Grand Cilizaty; and thea ftecring S.W. by S. you go away to the Cupe de lo, ithands, and then away to the caltward to the Cate lowde it tolf:

In this Courfe Care munt be taken, after you are paft the Coumme, to kecp no farther to the W. than S.S.W. that you may get your inaferchace of Longitude, and likewife raking care that your Compats may not deceive you becaute of the Variatoms; ticn youmay run between the Salt Illands and the Mann ; taking care allo to avoud the Pargat Bank abovemantion'd.
At the end of the P'u gat Bank, due W. from the Cape ahour a L, he of or 7 Cliffs or Rocks, call'd by our rude Scamen the $B$ e', hutein Iflumds, nor do we know any other uame for them: Of thefe, = are larger than the reft, whoch at firft View look


Gun-fhot dift. huge rolling tcr crough, a ${ }_{1} \mathrm{Fa}$. Thet dift. about $=1$ Gorec, there the Illand tow ing to Cape $E$
When the $($ then it appear the Sca, and the E. with a ward, and wo Point, and ru anchor in 15 and half N.N. Verde; and a tle Town call on the Coalt
W.S.W. from Brazia So Ls, lies a Shoal which has but 3 foot
come d the oint, good limall about Ships hcre,
'tis s low Humt the s out into fpeciBonn and Jnder de in - On withjand; ruin'd Water, and is not above 20 Fa . long: and the Sea rifing very high upon it, there is the more realon to give a Caution to Sailors concerning it, not only as it lies in the open Sca, and is cover'd fo as not to be feen at a diftance, but becaute it lics in the Fair Way berween thefe Iflands and the Coaft of Anerica, and Ships may be in great Danger of friking upon it in paffing from hence to the Bridfls, or from the Coalt of Guinea to the Caribbec Iflands: for which Reafons it would be well to place a large Buoy upon ir.

The Inle of St. Nicbolds lies W. from the Inte of Salt 22 Ls. On the S. fide of it, near the E. Point, lies the Road of Port Perguica; and to the weftward of that, about the middle of the İlland, lics Port Fuder Sal. The Ille Chaon lics off of the W. Point of St. Nicholas about half a L. being a fimall Rock almoft joyned to the main Illand.
N.W. from St. Nicholas 3 Ls, lics S't. Lacia: On the S.E. fide of it there is good anchoring, in a Bay which lying within the Rocks is thercby made a natural Haven : alto on the S.W. fide you may anchor in 20 Fa. on that part next St. Vincent.

About 2 Ls N.W. from St. Lucia lics St. Vinctut: There is good anchoring on the N.W. fide of it in a large decp Bay, where you are fhelter'd almoft for all Windsand Weather, and clang good Ground, with from 8 to 20 Fa .

About 3 Ls N.W. from hence lics St. Alutonio, the molt northerly of all the Cape de lerde Illands: There are 2 very high Mountains on it, generally cover'd with Clouds. On the S.E. fide there is a Bay, and a good Road for Ships in it.

## ver Gambia, and from the River Senegal to Cape Roxo.

Gun-flor diftance. The Sca makes a great noife here, with huge rolling Wavcs, all foaning and white : but there is Water clough, and if you kcep a little off, you will have no to ${ }_{i 1} \mathrm{Fa}$. Then run along cafterly towards a fimall high ifland, dift. about $=\mathrm{Ls}$, and about a L and half from the Shore, call'd Gorce, there you have 16 to 17 Fa . all the way: and thwart the Illand towards the Main lies a Bay with a flat Strand reaching to Cape Emunuel, where is good anchoring.
When the Cioree comes without the Point of Crape Emannet. then it appears on the W. fide with a high Mourtain clofe to the Sca, and very fecp, and yet very low on the Land fide to the E. with a flat fony Strand: when you come from the wettward, and would go in here, you muft run feaward about the Point, and run under the Inland on the infide, there you may anchor in 15 to 16 F.l. over againgt a tandy Bay. Abour al and half N.N.E. of this Bay itands the Villuge calld Catio $V$ erde; and abouts Ls to the wettward from thence lies a little Town callit Refrifion. Here, and ar almont all the phaces on the Coalt s:car it, you may get frefl Water, and fuech Refrefhments
frefments as the Africum Coalt affords, particulaty good Gouts lleth and Rice.

From the (is, rei to Refrifon you fail all along near the Shore, which is low, and has a fin Stram: ; there are teveral Towns, tho of no Importance, where you may get frelh Provifions. On the fide of the Land bey ond hefief weftward, dift. I s, lic fe:cra' Rochs calld (smpmen, or the Compallant Rocies; rher lie clote under the land, and reach about a (eun-floot into thesen, fo youmat keep a litele off, and give them a Birth: If yotipals by in the Night, keep in about is lia along Shore, heaving the Lead all thie way; tho the Land will thew you the Rocks, for all the reft is as tmooth as if Ievelld by hand: when you come near the Clitfs, it fuddenly drics - to S Fa. then come to an Anchor till Day, and you'll lee the Ships in the Road, or at the Town; and then ride cafterly according to the Seaton: If it be in the time of the Tratedos the Road is not good; then youmutt anchor in no lets than 17 la. The Coree is the boft Road at that time, and that is to bad, that fometimus all your Anchors and Cables will not hold your Ship, ctipecial!y when a SE. Trazado blows; but in Sunme: the Road of Refrifio is beft, where you may hic clote to the Shore in 6 to - Fa.

From Refiefo to Point Palli is-I.s; your Courte is in 8 Fa. along Shore caftward; there is a Bay about; Ls onward of the way: and if you would put in there, you mult keep off in 16 to 17 Fa . till you are at the full height of it, and then ftand right in.

About half a $L$ to the fouthward it cbbs again fuddenly ${ }_{4}$ to 5 Fa. fo that you mut ule your Lead contmally. If you come from the wetward, as toon as you tec thefe Shoals, $y 0 u$ will allo fee the litele Houles of Peint \%alli. The Road here is only for imall Veffels which lie clote to the Houfes, between the Chfic, If you come from the weltward with large Ships, you mult take heed of that thoaly part, kecing to feaward in 9 to 10 Fa. fo: thes Road is not for large Ships. If you would anchor before $\%$ point ' Oalli, keep a high Tree call'd Arbre de Cinitu. E.S E. from you, and come no nearer the Land than 5 F. To the callward lics Izald, with a finall Harbour clofe by the Land, where large Ships may ride with a Head-faft on Shore very fecure in 5 to 6 Fa. nay, the Ground upon this Coaft for feveral l.s is all fo even, that clofe to the Shore, and within 3 Is of it, you have flill the fanc Depth, wiz. 5 to 6 F.s. This is occafion'd by the Shoal of IUala, which lics off from the Shore for a great length of the Coaft. and being even Ground to the outer Edge, socs off at once into $s$ or $\sigma$ Fa. to that you have that Depth clote to the Shoal; and after that the Ground beng to eren below, the Water is very calm and limooth above, and a little Wind does not ftir it as in other places. Nor does the Sca break here as in other places, unlefs it blows a Storm, that is, a mere T'iatado or /hurnathe'.

If you come finm the weftward, the Shoal drics up fo, that at one Caft you will have 12 Fa. and at the next 7 . It reaches Jalf a I irom the land: Go then SS.W. a little from thent

The about Shallop with a ring of?
the Gold with to above tusuc/i

Cap is chan for fird it is a for Ho corer:

To In 5 fis where bave Deprh II ard (1,10) the the ra W

Sall towar $\| 11$ When Dry at arc at

The will the th, motme it you 'ths da rather then go 10 hind N . an than which wron: ling
if hard flow
Rift, Take but th is onc

## for the Weflern Coufts of Africa.

la: ly good the Shore, al Towns, Provifions. dift. :Ic, -an Rocks; in- hhot into m a Birth: long Shore, cw you the 1 by hand: $s-$ to 8 Fa he Ships in y according sthe Road I- Fa. The o bad, that hold your in Summe: clote to the
ourk is in 8 s onward ot keep off in d then lland
denly $+\mathrm{tO}_{5}$ If you come Is, $) 04$ will Road here is cs, betwecn large Ships, o fcaward in f you would 'd Arbre de Land than 5 our clofe by faft on Shore ais Coalt for and within ; 6 F.l. This oll from the cren (iround to that you the Ground nooth above, s. Nor does ows a Storm,
es up fo, that
It resches

The Mouth of the River (iandia is near; Ishoad, with about 5 Fa. wh the Entrance : you may row moto it with your Shallops aganit the Stseam near tools: but then you meet with a great Watcrfall, which with a volent Noile comes poumog of the Rocks, and is impatiable.

The Channel is generally very broad, efpecially from the Gold Coalt of Cantore to its Mouth; and it falls nito the Sca wich to ftrong a Current, that you may take up the frefl Water above s Ls mothe Sca. Some Premb Shallops, as allo $\%$ orturuefi Barcolongus, go up a great way, but no Shaps.

Cape So. Mars is in Lat. 13.40. upon the Coaft the Ground is changable ; the farther to the fouthward, the whiter it is ; for firft near the Cape tis a redhih Sand; 2 or $;$ I.s fouthward it is all srey ; and about Capie Rowo'tis a fine white Sand fit for Hourghalles. The Coaft between them is very low, and coverd! wish Trecs and white Sand.

To tail from Cape St. Mary to Cispe Row, kecp along flore in 5 Fa. dandy Cround, till you come to the Shoal of St. Pedro, where you have bue of ta. and the Gronnd maddy: then you have 5 la all along to the Rever Caldmathed; but withon; la Depref off fiore tus very sed Smad. Absut; L.s wo the noth"rand of Citere Rown, hwart off of a llecp chify Pont, the Ground is lo dsmmy and itff for about. Musket-thor trom the floore, that you canhardly draw the lead out, and but rwo ta Water

Salng in s Ia hwart off tonn afe Rowo, and being bound towards Katmet, you sum S.E. to the Shoal calld \%aturad; but if whellond, flece S.E by $S$ where you will tiod $+10 ; 1$ a When a hell Iree in the midde of a rough Bay, between the Dry and Red Pont, bears N fromyou, then you ane late you are at a Shoal wheh hes off of the Buy.

Then as Wind and Tide lerve, rmi fonthward, whoh yous will find work cuough to do, the Sorean tennge thw.ut to the fhore: m that Tack you will tee 3 Whece or bists atwios mountmg againft one another, like the blowing; of a Whate; if you don't tee them, you are fure to have a bat way, hectume 'tis dangerous to pals wethout fecin! the Shoal, and you thond rather he by, or come to ans Abhor thil the Water talls, fur then you will iee it: Astoon as st appears. break Gromm, and go to the cattward, till the breaking of thote; barsappar be: hind you: Then, whether it flows or cbbs, run away E. by N. and kecp in sla, at mott in 5 and ; if you come weper than 6 Fa. you milt tack about to the $N$. nll you recover 5 1. 1 . which is the only right tating Depeh; all deoper was ate wrong, and wall cod at lome Shoal or Chitt: phen withatede ling Tide you will tee the North Bank rummery to by N.

If thanding thas N . by E © you chance to come mion a for hard (around, you mult tack to the leawad, for there is a thoal calld yhan de Coimbra, from which there thoots oun a Riff, whech you mult palsbefore you come to the Norbly lim: Take care you do not edge too much to the temthwat of it, but the Breakings will gude you; they begm betore the Water is one thard fallen.
 Cididita E.S E. from you, and come no ncarer the Land than 5 Fa. To the caftward lics Ieala, with a finall Harbour clofe by the Land, where large Ships may ride with a Head-faft on Shore very fecure in 5 to 6 Fa . nay, the Ground upon this Coaft for fereral L.s is all to even, that clofe to the Shore, and within; Ls of it, you have ftill the fame Depth, wiz. 5 to 6 Fa. This is occafion'd by the Shoal of IVala, which lies off from the Shore for a great length of the Coaft, and being even Gromend to the outer Edge, goes off at once into 5 or 6 Fa. to that you have that Depth clote to the Shoal; and after that the Ground being to cren below, the Water is very calm and limooth above, and a linte Wind docs not ftir it as in: other places. Nor does the Seabreak here as in other places, unleds it blows a Storm, that is a mere Fiatado or Hurratale.

If you cone from the weftward, the Shoal drics up fo, that at one Cat you will have 12 Fa. and at the next 7 . It reaches half a L. Erom the Land: Go then S.S.W. a little from it, and youhave pretencly deeper Water; and when you are paft it, you imy eo along Shore in s Fa again to the Road of Leala. You will know when you are patt this Bank by the Ground; for on the Bunn it is hardas Stone, but when you are nearer the Land thansea it is bofe Ooze above, and fandy under the Ooze; more calede paing by lesh it is red Gravel and very hard. Then to the S.E. you'll fee a pared of Palm-Trees under the Shore, Whach look as if they ftood in the Water, the Ground being very low : ar the hame time will appear tome Negrocs Houles within the Lard: then run towards the Shore in + Fa. Here you will find the Shoal run hke a Tail from the Land, the Sea ripflas unn it, and you will find your Ship driving, and the Sea "red thoting upward, by which you will fee the Paffage or Fair Way m; but you muft take care of the Tail of the Bank, and not flea tasticr northward till yousec to the fouthward 2 has Salm-Trecs call'd Los '7 has limazos.

When thote = Trecsare to the S.W. from you, you are in the Harbour, and may anchor in ; Fa. To the northward Wham the Point is the Road of Leala: From hence yon
 to ila.

When you approich the River Gamplat, the Ground is a mudly cond by "hech Token you will know you are right Weth the Month of the River: And at Cape St. Mary, which is the E I'ont of (is)tha, 'tis till of red Shells. You will know (ia, St. An, by a vary tall Tree on the top of the Point; when that Tice is S.SE. datt, 3 Ls, you may ride in 4 : to 5 la it fowsthere S.E.

To on chear of Shoals, and the fouthermoft Land or Bank of the Rwer (i,tmb, ftece S.W. by W. and W.S.W. or if you can, heorW. till you have deeper Water; for in tanding to the weftward the Water decpens from 5 to 12 and $2+\mathrm{Fi}$ and about GGI.SWN.W. you have 38 lia. If you come trom the northwar!. you matt not come nearer to the River's Mouth than 10 Fa. before youtce the Cope; to the N. fide of the River is fo 12cep, that it you come bit to 2 Fa. you will immediately run aground.
and $\operatorname{srbre}$ di ac Land than 5 arbour clofe by d-faft on Shore this Coaft for and within 3 to 6 F.s. This s off from the geven Ground Fa. to that you nat the Ground 1 linoorh above, ces. Nor docs blows a Storm,

Irics up fo, that t7. It reaches le from it, and are paft it, you of léala. You iround; for on acarer the Land he Ooze ; more y hard. Then nder the Shore, ound being very ; Houles within Fa. Here you id, the Sea ripng, and the Sea the Paflage or ail of the Bank, the fouthward 2
on, you are in the northward rom hence y'u terly it dries up
the Ground is a ov you are right t. Mary, which hells. You will the top of the 1 may ride in + :
of Land or Bant V.S.W. or if you a tanding to the ${ }_{2}{ }_{4} \mathrm{Fa}$ and about from the north©Mouth than 10 the River is fo mancdiately run
i you aontace nem, youme lure 0 mave a bad way, becalle 'tis dangerous to pals without iccing the Shoal, and you thould rather lie by, or come to an Anchor thil the Water talls, for then you will lee it: As toon as it appears, break Ground, and go to the ealtward, till the breaking of thole 3 Bars appear behind you: Then, whether it tlows or cbbs, run away E. by $\mathbf{N}$. and keep in 5 Fa. at molt in 5 and $\frac{1}{5}$; if you come uceper than $\sigma$ Fa. you mult tack about to the N. till you recorer $5 \div$ fa. which is the only right farimg Depth; all deeper was ate wrong, and will end at fome Shoal or Chtl: then withatatling 'Iude you will fee the North Bank ruaning t. by N.

If thanding thus $N$. by E. you chance to come into 2 Fr. hard Gromed, you mult tack to the leaward, for there is a thoal call'd tuan de Coimbra, from which there thoors ont a Ruff, which you mult pals before you come to the North Band: Take care you do not edge too much to the louthward of it, but the Breakings will guide you; they begin betore the Water is one third fallen.

There flands a high Tree upon the F. fide of the Land that comes from Cape Kowo, tis call'd Arbor de' Cafticuss: When this Tree is N.E. and you have $i_{2} \frac{1}{2}$ Fa. rum in towards it, and you will lec the North, Bank; when you have it, run along to it within Gun-thot ; and when you have palt by it, run caltward a good way, if the Water be falling ; if nowing, run E. by S. by which Courfe you will be fure to get the Sonth Bank, where is always burns; run along the Soutb Bank, kecping within $;:$ to 6 Fa. then go about a Tail that comes off from the Southo in Shoal, and having palt it, youmay run over the South Bark in $5+\frac{1}{2} \mathrm{Fa}$.

When the Foreft call'd Ruy Pervira lies northward, the W. Point of Praya de l'acas N.W. and the L. Point N.E. by E. from you, then you may run in 2 Fa. at the deepelt, guite over the Soublow Bank; and when you fund but halt a Foot deppor Water, you are quite over it and fite; then you go up the Riser with the Flood, and anchor betore $\mathbb{K}$ aecber: But in ufing this fiareing Water, you thould alwayshave an Anchor ready at the Bow, with the Buoys over beard; nor mutt you come wathin 2 Fa .

Being paft this Shoal, and bound to Carazellas, yougoS.E. in 8 Fa co the Mhands Los Illsetar, all the why trom 12 to 6 Fa. muddy Ground; then go abour N. till the Aruor Cajtewis ftands right betore you N. and keep thus till you are path the Bank: In this Courfe you have the R. Alucras and the Pome of the laft mam'd Land E.S.E. from you; and when you are paft the Bank, you have Praya de Vacas N.E. righr a head, till you are patt the Corra Ruzan: then 'Dos liwers thits as you yo into the Stragts.

To go from Cape Rown to the S. fide of the $I$.os Imetars, go firt to the fouthward into 6 or 7 Fa. the Ciround flimy and foft: being then NE. and S.W. with the Shas, and Water flowing, you go S.S E. but if the Watcr be falling, then s. cultward, according as you lee the Breaking on the Shon!: then yourun along by it with your loutheallerly Tack ins Fa mudy Ground; but it you fud the Ground wrin hard, then fand io

## Sailing Dircilons for the Weftern

the fouthward, keeping fill in $; \mathrm{Fa}$. The Diftance from the Shoal to the lifands is; L.s S.E. and when the biggeft of them is N.W. then you may run in.
There is a Bay in the maddlemoft of thefe Illands, where you may ride in 5 to 6 Fa. there is a large Point fill of PalmTrecs, with a landy Strand, and caltward from that a Rifflics thwart the Strand: From thence you may run with a latter Ebb to Pome Boltas. round a Flat which lies between them hoth, and away by the Coaft to the Strait of Catabario a. In going from cima to \%ount Boflds, your Courle is S E. The Point is known by a great Wood on the Land, which appears right a head: you mult not come near the Point for there is a Riff nums off to teaward.

Firom thetic Illands call'd Cuja, and 5 Ls without the Point, lies a shoni : if your rum about if, you mult bring to, and come to ananchor ull high Water, on the E. fide of the flands: Then weigh upon the Ebb, and run S. by W. thro' betwea Point Bathman and the Ifland Gatmes. When the Ifland Arcafte lies N.t., from you, then the Shoal of Pedraira lies N.E. and S.W. The laid Shoal and Illand lymg N.E. and S.W. from one another. N. B. The Fiat ll'ay is in + Fa. but you aned not fear if you find but ; Fa. for the Ground is meven, fometimes 4 andlometmes ;. In going thro' between Point Baluma and rhe thlond Cistomes, you find a great Rippling and Whelming of the Water, as of there was a Shoal; but it is only the thwartug of the Currems, the Water is decp chough.
If you anchor in any Bay on this Coalt, take care the Ground Nectem, and come not too near the Land, left you run on shore.
Whin the latter Ebb your rum S.E. from Baluma to Bifigor, till you come to the l'one Eifilavos, which is a part of Bifi:", bur broken off and lookmy like an tlland: then paffing by mous- Matigos, you go betwecn z fony Banks and Shoals Whach cone from the northward: Then turn to the S. fide of
 come not near it, becaute of a Stone Bank which lies off: When youl ate pall the Pomt, run boldly up the River, keep. me the Nhe Chamel.
from B, rlanh to Simra yougo S E. right on a little Illand na the S.E: fide, with the lame Tack: when you are within Gonn thot of it, sun on © E. to the Ille of "Fobn V'agera, where you will have 10 to 12 latalong by tome Shoals, which lic above Wuer on the Larboard fide.

Bring the pont of the thand Rowo W and W.N.W. As foon as you fee the shoals, it will change to N.W. when you mult nin to the S.E. to all the Shoals will be on your Larboard fice. "Tis duper on the $S W$. with tome Rulfis reaching to feaward. On y our htublourd fude, as you go on the fouthern Tack, yous will he monthe kafle above Water, at the end of the Channel
 mes the Mands on your Larboard fide, and pafing by the Ithad ${ }^{2}$ 'cutor as tar as the Ifland Alay; that Tack S.E. will bmy youto Cimpe Verga.

1: jo: mect with a shoal many part of this Courfe, kecp mencenclluly; and if your find above to Fa fland to Sca-

It is a br erra Leon, called Suer 'Tis caly full of lited $N$. and S . the W. out come from it really is. on, kcep in ing in that bear due E Rcckoning therctore ) from 15 to Cape : wh Land c.aftw right betor the Sca aln

Kcep the board, and Water is ot N. B. 1 you th tance the $\mathrm{C}_{1}$ nearer thould you co by the Recko you fe into
Cape S within, an covcr'd wi about a $n$ which is d but at low
If you a having in $N$ come to $r$ in. In th
If you come to a up for a P: ver, call'd the Shore Bcafts, tha

The En there is go man's Ba; good Rice,

In com Land brec

## the Weftern Coafts of Africa.

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## where

 Palm. Rifflics a latter n them ra. In e Point rs right sa Riffint, lics
ome to
Then
1 Point
afte lics id S.W. ne anonot fear times 4 'ma and ming of warting

Ground run on

Bifigor, If $13 i / i=$ fling by Shoals . fide of yos, but lies off: r, keep-
c llland within , where ch lic 2.

Asfoon ous mult ard ficie. feaward.
ck, you Cliannel E. keepby the E. will
fe, kecp to Sca-

It is a broken low Land all the way bivere $\overline{7}$ ) has and $S_{i}^{\circ}$ erra Leon, with feveral Rivers openng into the Sea, chicfly one called Surra Leona, which runs to the northwatd ot the Point. 'Tis cafy to diltinguifl the Point of Siara Peng, becaule'tis full of little Hills cover'd with Trees, all the Land both on the N. and $S$. of it being very low and plan: As you come from the W. out of the Sca, it appears like an Mland; but as you come from the $\mathbf{N}$. it makes plan!'y to be a part of the Nain, as it really is. If you come fromtheN and W. to make sumber $L i-$ on, keep in the Lat. 8. 21. and when you areby your Reckoning in that height, ftand in for the land, for then the Cape will bear due E. from you; bat youmuft make Allowance in your Reckoning for the Current abous a Pome and a halt S. When therefore you are in this Lat. you will have gradual Shoalings from 15 to 9 or 10 Fa then you may botelly run in for the Cape : when firt you make the Cape, you will fee the low Land caltward of it, with a Clump of Trees on it, and z Rocks right before the Cape to the feaward, with lone Shoals, which rhe Sea almoft always breaks upon.

Kecp the Breakers within = Cables length of you to Starboard, and rumin, you will come meoy and so lia the deenett Water is on the Soneth Shore.
N.B. It is to be oblerv'd here, that by your Reckoning you thall not be able to make out the dame Merndan Diltance which the Charts make upon all this Coatt, becaute the Current lets from the N. to the S. calterly; and the nearer the ihore, the flronger the Current: therefore you fhould take care to work by your Lead, before you think you come nar the Shore : for you will find where you are, by the Depilh of Water, better than by calting up your Reckomsos: for in this Lat. you will have as fa before you fee the Land, nor will you lie the Cape till you come into io Fa.
Cape Serva Leon makes in high Hmmocks, lying a 1 within, and on both fides of the Pont; the Land about beins cover'd with 'Trees. On the S. of the Cape to leaward, dift. abour a mile from the very Point, liss a Rock under Water, wheh is dangerous to thote who are bound in with the Flood; but at low Water it ebbs dry

If you are bound for the River, you go in E and E. by N. having in Mid-Channel is to is Fia wheth Depth holds till you come to Frenchman's Bay, the ulual piace to wood and water in. In this Bay you may anchor in ro Fa. clote by the Shore.

If you would go higher up to the linglifh Fatory, you mult come to an Anchor in firenchman's Biay, and fend your Boan up for a Pilot: the Eiuslifh, Factory is in an Illand up the R1ver, calld Benzec; it was formerly placed in an Ithand neat the Shore calld Tercora, but they were to harals'd whth wht Beafts, that they were oblig'd to remove.

The Entrance into this River makes in 5 fimall Bays, and there is good anchoring in them all: The third is calld frenchen man's Bay, where is good freth Provifions, and plenty of very good Rice, belides W cod and Water.

In coming out here, you ihould be caretul to watch for the Land breces, for then you kepp Mid Channel, and go out
wha whe neat it, beaulc of a Stonc bank which lies off: Whan you ate patt the l'omt, run boldly up the River, keep. me: the Nid Chamel.

From Baluma to Sorma you go S.E. right on a little Ifland no the S.E. fide, with the lame Tack: when you are within Gime-thot of it, run on S.E. to the llle of \%ohn Viegra, where you will have 10 to $1_{2}$ Fa along by fome Shoals, which lie above Water on the Larboard fide.

Bring the Point of the Illand Rowo W. and W.N.W. As foon as you lee the Shoals, it will change to N.W. when you mult nun to the S.E. fo all the Shoals will be on your Larboard fide. Tis decper on the S.W. with lome Riffis reaching to feaward. On your starboard fide, as you go on the buthern Tack, you will tee mother Rill above Water, at the end of the Channel of Yoln l'uspot; wheh when you have paft, you runS.E. keepming the lllands on your Larboard fide, and palling by the 1Hind $P^{2}$ 'nlon! as far as the Ifland May; that Tack S.E. will bung youto Cipe Versa.

It you meet with a Shoal in any part of this Courfe, keep mone callety; and if you find above to Fa. fland to Scaward: but if the Water keep the fame Depth, keep right on to Capel解. The main I.and from Poulon to Cape Ver. ath apens low and till of Trees. biat when you pals the - Hay: you have fome high loonts of Land extending feawards, and tont contmues lonthiard a good way. Comingoff from the River limeno, you have firt 25 ta then 30 , then 18 . The Guound about Cape $l$ erga is all little Stoncs among a red Sand.
trom Ciap: Rovo to Siervia Lerme you go S.S.W. and S.W. by S. 11119 to 20 lla . On the out fide of Baxos de St. Pedro; and from:9Fa, you go louthwefterly, having io to it Fa not Iels than $\%$. When you come to 12 or 13 la. you know you are patt St. Pedro's Shoal ; andthen you tun towards the thore S.E. to 10 or 2 Fa . and then to 7 and $s$ Fa. This thoaling to 7 and $s$ las is occafion'd by a Tail thooting out from an Ifland, which when you are palt, you come into 19 and 20 Fa ; again.

All the Summer from March to September, you may go with an E.S.E. Tack towards a Pomt which appears higher than the Nan, and the Trecs thow as if they flood in the Water: from thence there runs a Flat to leaward, you may go over it inf to + Fa. bit betore you have 7 to in Fa. you mult fall wo nearer than due $S$ for tho the Point lies S E. from you, yer 'tus dangerous with the fouthern Courle to come too near it.

Soon atter this you pats this Point; and S.E. from C'ape $V^{\prime \prime}$ r's lie the high Ihands of 'Delos, or more properly lfle's de' Las, wholn thew as if joyn'd to the Main; but you may lail between them and the blatin coming from fiaward; only bring the hoghedt of them, which is Tranare, S.S.E. and S.E. by S. from you; and then run right upon it, within a Bow-fhot of the hore: Thengo by the N. fide of it towards the Main in 4 , to 5 Fa till the immoft Ifland bears S. by E. from you, where you will fee the Rupling right before it. Then you run the infide of it quate rhoo'; the nearer the Mland, the Water isdepelt: The llland is low and cover'd with Trecs, and a grood Rod tor Ships on dic NiLi fide.
cover about whict but a If havin come in.

If come up fo ver, the $S$ Bcant.
hich lics off: River, kecpa little Ifland u are within 'iegra, where which lic a-
W. Asfoon hen you mult Larboard fide. y to feaward. " Tack, you the Channel minS.E. kecpaling by the ack S.E. will

Courfe, kecp tand to Scil, kecp right to Capever. you pals the ing feawards, yofl from the cn 18 . The g a red Sand. and S.W.by Pedro; and ${ }_{1}$ Fa. not Icls now you are the thore S.E. hoaling to 7 om an Ifland, o Fa; again. you may go pears higher din the Wayou may go Fa. you mult E. from you, c too nearit. -. from Cape ocrly Ifles de you may lail ; only bring d S.E. by S. Bow-fhot of the Main in $\therefore$ from you, Then you run the Water [recs, and a
coverd with Trees. On the S. of the Cape to feaward, dht. about a mile from the very Point, lics a Rock under Water, which is dangerous to thote who are bound in with the Flood; but at low Water it cbbs dry.

If you are bound for the River, you go in E: and E. by N. having in Mid-Chamel in to is fia whech Depth hodds till yon come to Freuchman's Bay, the ulual place to wood and water in. In this Bay you may anchor $111 \circ$ Fa. clote by the Shore,

If you would go higher up to the Einglifh Fatory, you nut come to an Anchor in Pirenchman's Biay, and lend your Boas up for a Pilot: the Euslifl Factory is in an Illand up the River, call'd Renzie; it was formerly placed in an Illand neat the Sheic calld Tercera, but they were to harats'd wheh wild Beafts, that they were oblig'd to remove.

The Entrance into this River makes in 5 finall Bays, and there is good anchoring in them all: The third is calld fireuthman's Bay, where is good frefh Provifions, and plenty of vary good Rice, befides Wood and Water.

In coming out here, you hould be careful to watch for the Land brecze, for then you keep Mid Channel, and go out afore the Wind: but if you mils the Land-bresea and go oue with the Sca-brecze, you muft be carcful to avoid the N. Shoals in turning, and come no nearer the Shore than 6 to 7 Fa .

If you are bound to the fouchward, take care of the Shoals off Sherburg River. When you are to the weitward of Cape $S_{i}$.erva Leon, keep your Lead gomg, and come no nearer than 11 to 12 Fa .

There are alto feveral Shoals off of the Iflands, called the Bona's: thefe Illands begin to che S.W. of Sierva Leoin, and the Shoals ftill farther W. they are alto calld the Ralfitios Shouls, and run a great way out to Sca rounding and hollow, fo that you muft itand off quite out of fight of the Land to go clear of them. In this Courle youwill mect with leveral Overfalls and Whelmings of the Water; at one Caft you will have if to 12 Fa. and the next 5 to 6 , then deep again, and to alternate. ly many times. To go clear of thele Shoals, ftecr away S.S.W. till you have no Soundings; and then fteer away parallel with the Shore, till you find Ground again in 30 to 40 Fa . and then make the Land again as toon as you pleale, keeping in no lels than 1 ito $1 ;$ Fa. by your Lead. Thus you will be patt the Bona Shoals, or the Balfazis.
N.B. There is a great Sand, or Shoal, lics off of this Coalt, between 20 and 30 Lstrom the Shore W.N.IV. 'tis a hardsand, and lics N.W. and S.E in length jo to + L. S. and trom 12 to ${ }_{14}$ Ls wide. Towards the S.E. Pome of it 'tis very thoal, and fometimes dry at low Water, and therefore is is to be taken great care of ; all the N. and W. part has is to somd 2.2 Fa. to that there is no Danger there.
If you are not bound moto Sizera Leon, butwould go forward upon the Coaft to Cape Monnt, which is the next Cape, take care to come to lat. 6. 37. then you are in the height ot the Cape, and may fland in for the Shore; but be mindtul to kecp your Lead going.


IMAGE EVALUATION TEST TARGET (MT-3)


Photographic Sciences


Corporation

## Sailing Dicections for the Weft

There are feveral Places on this Conft beyond Sirra Leon and Cape Monut, fich as St. Amue, Furnado, Gamboas Rizer, Madra Bomba, and the River Cores, call'd by our Sailors Sberbro River.

Within the Illand Bozas, or Buomas, you fee upon the Main a Pico or Hill, that fecms of a monftrous height, and cover'd with Clouds, to that youfeldom can ice the top; 'tis a good Sca-mark for this part of the Coaft, which is very difficult.
S. by E. from Sierra Leon lies Cape St. Amue, being the N.W. Point of the Ifland of St. Amee. This mland is a long narrow Slip of Land. frecthing E. by S. and W. by N. near 8 o miles in length: the Channel between it and the Land is uncertain, and in fome places has Water enough; but in a place which they call the $P d / f$, there is a Bar quite over the Paffage, on which there is not above 10 Foot at low Water: And as there is but very little Tide there, it cannot be $;$ Fa. at high Water. In fiiling thro' here, you mutt take a Pilor, and there are Eyy lith Pilots to be had at the Factory at Serraloon.

This Paffage is call'd the Furno of St. Anne, from a Point and Creck (with a Negro Town) on the Shore, calld Fiurno. There are abundance of Creeks and fmall Rivers, which fall in from the Shore in the Faring Way or Paffage : the largeft are the Gamboa, the Madra Bomba, and the Sberbere, or Sberbro River, which is otherwile the River Cores.

The River Gamboa is navigable for frall Craft 30 to 40 mile up the Stream, to an Indian Town calld Ranclo, where the Trading with the Negroes is carry'd on. It would be needful to take a Pilot, if you would go up here; you may have one at the Factory's Houtc upon St. Anne's IJland, call'd Lembermans, or at Sherbro.

The Madra Bomba is navigable alfo about 30 miles, and there is a Portuguefe Factory within it ; but you mult take Pi. lots to go up.

If you come from the weftward on the off fide of the Inc of St. Alune, and are bound into Sberbro, keep the two Points of the Harbour of Sberbro open to run in at, till they come into one, and the Harbour bears N.N.E. and N.E. and then you may $g o$ in without Fcar: but if you doubt the Direction, or do nor find it practicable, as the Wind may ftand, make a Sig. nal, and the Factory will fend off a Pilor to affift you.
The Ground in the Haven of Sberbro is very thifting and uncertain: the fhoaleft place is generally $2 \frac{1}{2}$ to 3 Fa. but you would do well to found it firf with a Boar, and take a Pilot too. The Tide of Ebb runs fo tharp, and the Water falls fo foon, that it is not advifible to go in with an Ebb Tide: The Flood alfo runs very flrong, but then the Danger is the lefs; for if $y$ ou thould toucti, you will be off again immediately.

When you are in, you may anchor where you pleafe; but gencrally the Ships run up to the Mouth of the Madra Bomba, which comes into the fime River, and where is the chicf Place for Trading ; tho the Natives traffick upon both Shores, and the Ships may ride under the Land on both Shores; for the Land is high, and the Dept: of Water fufficicut ; and with
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The River Mount at the Entrance has not above $\rightarrow$ to 8 Foot at low Water. The Sca breaks violently upon the Bar, efpecially when the Souths blow, which always cone off the Sea; but when you are in, the Water is decper and finooth : The Shore upon the Coalt is fteep too, for you have 15 to 17 and 20 Fa. clofe to the Shore.

There is a Town call'd Chouca 30 Ls up this River, where the Europeans find very good lrade; and therefore ther Sloops go up as far as that Place, to load and bring Slaves down to the Ships.

The Cape is the caftward Point of the River, and bears the fame Name (Cape Mount) as 'tis lippos'd, becaute there are two very high Mounts clole to the Cape.

There is a very good Road wichout the Capes, under the I.ce of the W. Point of the River : Kecp the Point of the Cape bearing S. and S. by E. from you; there you have the belt of the Road, and may anchor in 6 to 9 Fa. The Cape lying to feaward, breaks off the foutherly Winds, and the Ground is a good hard Sand: This is your Road in Summer Scaton and fair Weather ; but when the Travadoes and Souths blow hard, 'tis belt to take more diftance, and ride in to to ${ }_{15}$ Fa. tor here goes a great Sca when thote Winds blow : Therefore bring the Pitch of the Cape duc S. fiom you when you anchor.

From Cape Mount to the River St. Patl, or Cape Monfirado, which is the caftermof Point of that River, the Coute is S.E. by E. 12 I.s. The River St. Paul is but a limall River; yct in the rainy Months, which are from Muy to October, the Water is very high, and pretty large Veffels may go in. You may anchor in the Mouth or Entrance of this River m 6 to 16 Fa. as near the Shore as you pleale.

During thefe Months there are frecuent Travadocs and Scorms, and the Sca gocs Mountains high clote to the Shore, fo that it is not without extreme Hazard that Ships bear the Sea; and they find it very difficult allo to get about to the fouthward. Nor is there any landing here in thote Months, without the utmoft danger of overletting.

From the River of St. Paul to Cape Monfirado, or Mefurado, the Land forms a little Bight, being tlat and grown with Trees : There is a good Road under the S. fide of the Cape, where you may ride in 10 Fa . or within the Cape in 7 Fa. bringing the Point to bear full S. from you, for it breaks off the Sca, and fecures you from a Wind oll Sca.

From this Cape the whole Country is a Wood or Foreft io St. Mary's, and is call'd the Foreft of St. Mavy's; and from thence to Barracope tis very full of Irces, which are always green : The Courfe is S.E. by E. dift. 7 Ls. Among the Trecs are feveral Negro Towns, and fome Trade, but not much.

From Barracope to the River ${ }^{\text {Ounk }}$ is 7 I.s, the fame Courfe exactly, and the fame kind of Coaft, the Land full of Nesro Villages and Clumps of Trees: Youmay wood and water any where upon all this Coatt, if the Soutlss do not blow ; but if they do, there is no bearing the Surge of the Seaupon the the Harbour of Sherbro open to run in at, till they come into one, and the Harbour bears N.N.E. and N.E. and then you may go in without Fear : but if you doubt the Dircetion, or do not find it practicable, as the Wind may ftand, make a Sign.al, and the Factory will fend off a Pilot to affift you.

The Ground in the Haven of Sherbro is very fhifting and uncertain: the thoaleft place is gencrelly $2 \frac{1}{2}$ to 3 Fa. but you would do well to found it firft with a Boat, and take a Pilot too. The Tide of Ebb runs fo tharp, and the Water falls fo foon, that it is not advifable to go in with an Ebb Tide: The Flood alfo runs very ftrong, bur then the Danger is the lefs; for if you thould touch, you will be off again immediately.

When you are in, you may anchor where you pleafe; but generally the Ships runup to the Mouth of the Madra Bomba, which comes into the fame River, and where is the chief Place for Trading ; tho the Natives traffick upon both Shores, and the Ships may ride under the Laud on both Shores; for the Land is high, and the Depth of Water fufficient ; and with Sloope and Boats you may go trading up the River a great way on both fides.
$N B$. A S.E. by S. and an E.S.E. Moon makes full Sea at Sierra Leon, and an E. by S. does the fame at Sberbro.
$N^{T}$. $B$. If the Negroes here will traffick with you, they will make a great Smoke upon the Shore to invite your Sloops to anchor there; intimating that you may ride there, and come on thore: but 'tis beft to found the Depth and belicve your Lead, rather than truft to them. for they are often treacherous and always ignorant. You may have plenty of all neceffary Refrefhments and Provifions here, cfipecially Rice : and the Navigation is the more nefful to be known, that the Sloops may go up from the Ships to fetch thofe Provifions.
As the fhore now falls off to the E. the Courfe upon all this Coaft alters very much. From the River of Sherbro, and the Ifland of St. Ainue to Catie Mount is $\mathrm{I}_{4}$ Ls, the Courle E. and E. by S .

Between thefe Capes are feveral fmall Rivers which come into the Sea; and fome of them are navigable for fmall Veffels, Boats and Sloops, fuch as the Gallinas, the Non, the 'Palmas, and the Monos or Monte, the S.E. Point of which is ordinarily call'd by us Cape Mount. Here brgins that which the Sailors call the Grain Coaft.

If you would anchor before Cape Mount, you may come as near the Shore as 6 Fa . as your convenience for wooding and watering may require : but then you mult take care that it be when the Souths (as they call them) do not blow ; but if it be the Seafon for thofe Winds, they make a great Sca, and you muft keep farther off, at leaft in 13 to $i+$ Fa. the Point of she Cape bearing S.S.E. from you.
N.B. The Seafon for thofe Winds to blow here, which they call the Soutbs, is from May to Oflober inclufive and exclufive.
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From the River of St. Paul to Cape Monfirado, or Mefurado, the Land forms a little Bight, being flat and grown with Trees : There is a good Road under the S. firde of the Cape, where you may ride in 10 Fa . or within the Cape in 7 Fa. bringing the Point to bear full S. from you, for it breaks off the Sca, and fecures you from a Wind off Sca.

From this Cape the whole Country is a Wood or Foreft to St. Mary'r, and is call'd the Foreft of St. May's; and from thence to Barracope tis very full of Trices, which are always green : The Courfe is S.E. by E. dift. 7 Ls. Among the Trees are feveral Negro Towns, and fome Trade, but not much.

From Barracope to the River $Y_{n n k}$ is 7 Is, the lame Courfe exactly, and the lame kind of Coaft, the Land full of Negro Villages and Clumps of Trees: You may wood and water any where upon all this Coaft, if the Souths do not blow; but if they do, there is no bearing the Surge of the Sea upon the Shore. If you would anchor before this River, you may ride caly in 12 Fa. the Mouth of the River bearing N.E. from you ; and then the Indraft of the River a litele abates the Swall of the Sea.

This River $\mathcal{F} u n k$ is a furious Current, by reafon of its coming from a mountainous Country: For which reafon there is little Trade or Navigation in it, nor is there above 8 Foot Water in it.

On the S. Point are fome Groves of Trees, and beyond them within the Land are three high Mountains which are feen a great way at Sea : Make the middle Mountain of the three right a-head, and keep it there, and you may anchor in good Ground in $I_{1}$ to $1_{3}$ Fa. or kecp a Grove of high Trees, which ftand E.S.E. from the River, bearing due S. from you, there you may anchor in io Fa. fair riding.

From the funk to the River Seflors is 18 to 20 Ls , the Courfe S.E. by S. There are no Rocks on all this Coalt before you come to the funk: But $=$ Ls. to the $E$. of the Trees mention'd before, lic feveral Rocks, fome half a Mile, fome a quarter from the Shore. On all the Coaft fiom the funk to the Sefors, you may anchor in the open Sca near the Shore, in 16 to 20 Fa .

Between the 7unk and the Sefors lies the River St. Jolm, S.E. by E. from the "funk, dift. 11 to 12 Ls. There is a Rifl 2 Ls from the 7 unk, which runs off 3 Mile into the Sca ; but you have 5 to 6 Fa . upon it, fo that it is not dangerous. You may ride in the very Mouth of the St. Golnn, in 10 Fa . good holding Ground.

Hiere are feveral Rocks on this Shore, which lic fome under Water, fome above : Give the Land a good Birth. Here you will fee a Mountain within the Land, which makes at Sca like a Bow. Here is a Trading Place call'd Tabee Canee, where many Negroes live: And here begins the firft Land of the Country call'd the Grain Coaft. Here the Rocks lecm to ccale,

## Sailing Directions for the W

and the Laud begins to appear low and plain, which reaches to the River Seftors; but there is no good anchor-ground, 'tis a foul Strand, ftony at bottom, and very uneven : The Land is all covered with Trees, and feems to be full of Inhabitants, (Negroes) fo that here is much Traffick. If you are bound caftward, 'tis a bold Coaft, and you may run all along under Shore in 23 to 25 Fa. and have good Ground there, tho it is foul nearer the Main.

The Mouth of the Seftors is known by a high round Mountain in the middle of a plain low Country up within the Land, but feen a great way at Sca: If you would anchor at the Mouth of the River, bring the round Mountain E. half S. from you, there you may ride in 12 Fa. There is a Ledge of Rocis: lying to the caftward of the River's Mouth, which fhoors out a $L$ into the $S c a$, and muft be avoided.

Allo at the Entrance into the River lies a Rock, but above Water and plain to befeen; you leave it on the Starboard fide as yougo in.
N.K. You cannot go far into this River with your Ship, only with Shallops and fmall Boats; the Ships go about 3 Ls.
Weft of the Seflors 1 L is a Ledge of Rocks, with a great Flat running out 2 Ls from the Shore; but you run over it in 8 to 9 Fa. and loutherly from the Scfiors is a great Riff which runs S.W. from the Shore 2 Ls into the Sca. The River has a ftrong Current, but not raging; the Channel being deep makes the Water ftill: The Ships that go in, anchor at the King's lillage.
N.R. If you ride off here in the open Sea, you muft oblerve your Tinnes for going on Shore thus: Go on Shore in the Afternoon with the Sea-breeze, and come off the next Monning with the Land-brecze.
$N$. B. There are two Channels to go into this River ; but venture not in without a Pilot.
The E. Point of the Entrance into the River Seftors, or Sijfor, is calld Cape Baxos, or the Low Cape. E. of this Cape lic many dangerous Rocks, feveral of them under Water: They are fo much in the Fair Way of the trading Ships on this Coaft, that ignorant Pcople run great hazard in failing near them.

Farther E. 2 Ls from the River Sefors, is the Ifland Palmas, calld fo from an exceeding large Palm Tree which ftands fugly upon it, and is a Sca Mark to know it by. It is an llland, but there is no paffing between it and the Main. In failing along all this Coaft, you nuft not come nearer the Land than 20 lia. all the Ground within 16 Fa. being foul; and if you are in a great Ship, come no nearer than 30 Fa.

Between the Ifland of Palmas and Cape Formofa lie two great Rocks call'd the Cagados; and from them lies a great Riff to lcaward, which is the realon why you fhould keep out in ; OFa .

Under Formofa lies the River Sanwin, or Sanguin, as our Pilots ignorantly call it: You may anchor in 23 to 25 Fa . but the Ground is rocky, and not very good for anchor-hold. 'This River is only navigable for large Boats and Shallops. Rafla or Bafiozis not an Risere buta Place of Trade. In.the
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## Palmas,

 h flands it is an ain. In arer the g foul ;if they do not, you muft not truft your Men a-fhore to ferch it,
 6 Ls, the Courfe moftly S.E. by E. Here are two Villages of Negroes. viz. Battow and Zizo ; berwcen them is a fimall River, fit for no Veffel ligger than a Yaw or a Canoe. You will know Cape Zino 1 the Breakers upon the E. fide of it, where lie fome Rocks o in the Sca, as well under Water is above, and by a very high Tree ju!t upon the Poiut of the Cape. About 2 Ls from the Shore you have an apparent Current upon this Coaft, which you do not meet with before: There is good anchoring a $L$ to a $L$ and half from the Shore off of this Cape. A litete to the weftward before the Town of Battow are threc or four very great Rocks, the outermott makes like a Ship's Sail ; they lie out near 2 Miles from the Shore, and diftant from one another.

If you would anchor before Buttow, bring the high Grounds about the Town to the N.E. from you, and the Rock which lics W. of it about a Leag N.N.E from you ; and there you will have good riding in 24 to 25 Fa. hard Sand: But all the riding on this Coalt is in the open Sca. Here is no Shelter of Bays or Harbours.

Half a Lex. E. from Battow lie two Rocks more, quite under Water, very dangcrous; but you may fee the Breach of the Sca upon them above a L . off at Sca. Thete are the Breakers named above, and which you will know the Cape by.

Alfo N.W. from Battow lie two more great funk Rocks, no Iefs than 2 Ls. from the Shore, on which there is always a great Breach of the Sea.
E. of this Cape 3 Ls is another high Tree, upon a black fteep Point, which the Sea breaks upon, and comes rolling on with an unutiual Noife, as if the Ground was rocky and uncren, but upon founding'tis all found a clear Sand. Within this Point comes in the River Zino, which is the largeft River hereabout: Therc is ucar 2 Fa. Water in the Encrance or Bar, but within you lave good anchoring in \& Fa. fo that this River is a good Harbour, if your Ship does not draw above io Foot Water. In this River you may have very good Water, but you muft buy it.

If you chufe to ride off, bring the high Tree on the Black Point to bear from you N.N.E. you have good Ground, and 18 to 20 Fa .
About ${ }_{3}$ Ls. caftward from the Black ${ }^{\text {P }}$ oint is a Place call'd Citrie, or Setry, 'tis a Negroe Town: there are two of the Name, viz. Little Setry which is the firt, and Gricat Setry, 5 Ls farther: The Negroes and our Sailors call themP Pickinini or Piquino Setry, and Grande Setry; and our Pilot Books, for what Reafon we know not, call it Krow and Crue, and Setry Crew. The firf, or Little Setry is known by a great Cape or Promontory rumning far out with three black Points. allo by two great Rocks, one larger than the orher, and ftanding far into the Sea. They are clean and Itcep, and you may run clofe by then withour any danger.

Herc is a River, and a Riff of Rocks runs out from the W.

Farther E. 2 Ls from the River Scfors, is the Ifland 'Palmas, callid fo from an exceeding large Palm Tree which ftands fingly upon it, and is a Sca Mark to know it by. It is an Hland, but there is no pafling between it and the Main. In failing along all this Coaft, you muft not come nearer the Land than 20 Fa. all the Ground within 16 Fa . being foul; and if you are in a great Ship, come no nearer than 30 Fa.

Between the 1 fland of Palmas and Cape Formofa lie two great Rocks call'd the Cagados; and from them lies a great Ritl' to leaward, which is the rcalon why you fhould keep out in 30 Fa .

Under Formofia lies the River Samwin, or Sanguin, as our Pilots ignorantly call it: You may anchor in 23 to 25 Fa . but the Ground is rocky, and not very good for anchor-hold. This River is only mavigable for large Boats and Shallops. $B a f / a$ or $B a f f=3$ is not a River, but a Place of Trade: In the Road before it you have 20 to ${ }_{23} 3 \mathrm{Fa}$. tolerably good Ground. Bring the Trecs abont Sanwin N. or N. by W. and a high Hill behind Baflow E. by N. and the great Cliff juft before the Town due E. then you are in the beft of the Road; but if you lic within half a $L$. of the Shore, the Ground is foul and rocky.

If you go a little farther E. you will have two Convenicnces. (i.) You will have better Ground to anchor in, being a firm hard Sand in 15 to 13 Fa . (2.) You lie between two or three trading Places; for 2 Ls to the eaftward are two other Towns, Daljo and Salerno; and being in the midway, the Natives will come off to you from all thofe Towns in their Canocs.

Berween Daffo and Salerno, which are but a $L$ afunder, you will fee a very high Tree (among many leffer) which has two huge fpreading Branches on the Top: This Tree is the Mark for anchoring in the Road : Bring the two Tops open to you, right a-head, and you may ride in 22 to 23 Fa. very good Ground.

Eaftward as you ride you fee a finall Point of Land; under the Point comes in a River they call Mafter Jobn, the SPortugucfe call it $\%$ rian ; and 2 Ls tarther E. comes in the River Geroorefos not navigable for Ships: But the Negroes come out of both in their Canocs to trade for their Mellegetta, and the Ships ride in the Offing; but you mult not come nearer than ${ }_{15} \mathrm{Fa}$.

There is a great Clufter of Trees upon a high Point near the Shore, and by them you will know when you are off of the River, for you cannot fee the Opening.

Half a Leay. E. from Genove'fos is Cape Cavallos, which is a Riff of high Rocks off of the E. Point of the River St. Vincent: The Seabreaks violently upon them, and makes a terrible noifc. Sloops and Shallops ulually go up this River to fetch Wood and Water, which is very good; and the $N e_{-}$
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If you chule to ride off; bring the high Tree on the Black Point to bear from you N.N.E. you have good Ground, and 18 to 20 Fa.

About 3 Ls. caftward from the Black Point is a Place call'd Citrie, or Setry, 'tis a Negroe Town: there are two of the Name, riz. Little Setry which is the firf, and Great Setry, 5 Ls farther: The Negroes and our Sailors call themPickinini or Piquino Setry, and Grande Setry; and our Pilot Books, for what Reafon we know not, call ir Krow and Crue, and Setry Crew. The firft, or Little Setry is known by a great Cape or Promontory run ..ing far out with three black Points, allo by two great Rocks, one larger than the other, and flanding far into the Sea. They are clean and itecp, and you may run clofe by them withour any danger.

Here is a River, and a Riff of Rocks runs out from the W. Point of it ; and the Town ftands a little to the caftward of the Riff near the Point: It is the chicf Place for Shipping and Trade on all the Grain Coaft, the Land within is very high, and appears in many round Hummocks all the way, from the one Sietry to the other.

If you would anchor upon this Coaft, bring the Rocks off Setry to bear N.W. from you, and the Point call'd Wappo or Wapens E.S.E. and the Town of Setry N.E. then you have good Ground in 15 to 16 Fa. but if you go farther out into 20 and 30 Fa. the Ground is rocky and foul, and you will lofe your Anchors.

From hence to the Graud Setry is 5 Ls, the Courfe E.S.E. You will fee upon the Land near this Point feveral high Trecs, naked withour Branches, like Poles or Mafts. Bring the River N. and N. by E. from you, and the high Trecs N.E. by N. then you may anchor in 25 to 26 Fa .

From Grand Setry to Cape Palmas the Courfe is E.S.E. and S.E. by E. 22 Ls. This Coaft has fome litrle Crecks or Ri vers where you may wood and water with your Boats; but as here is no Port for Ships, and that you generally ride off in the open Sca a $L$ or two from the Shore, where you have no Rocks or Dangers but what are feen, it needs no more particular Defcription.

There is a great flat Rock off of $W$ appo, about 3 Ls to the W. the like is not feen on the Coaft of Guinea; and the Coaft from it is known by the Trees, which are fhaped like Un:brellas or Bec-hives, as if they were cut by hand. This is the belt place for the Mellegetta Trade ; which makes the Ships always ftop here, and anchor under that Lec of that great Rock.
N.B. At Cape 'Palmas you will find, in rounding the Point, there is a ftrong Current which lets to the S.E. and if the Weather proves calm, you will drive with it out of fight of Land. When you are about the Point, the Courfe fhould be E.N.E. but you muft fteer N.E. by N. or you will not be able to keep the Coalt in fight.

Thore is a long Riff off of Coupe Palmas, which runs outa I. at lalt into the Sca, and you mutt give it a good Bith: The Cape is known by three round Hills or Hummocks upon the very Doint, and farther within by a round Clump of Dalm Trecs; they are feen a great way off at Sca. If you come from the weflern Coaft, you muft ftecr S.E. by E. to get round the Cape and the Riff.

When you are paft the Riff, you ftecr in again E.S.F. for the Shore, till you find 21 to 28 Fa and then you come off of Saidy Bay: But weltward, and before you come to Cape 'l'alimer, lies the River Cioporen, and a Towncalld Garüay; you will know it by a litific Hill, and , or s Palm Trecs upon it juit on the Strand. There is alfo a great Rock lies ofl of the Shore, and the Sca breaks upon it with great Violence near a L from Shore.

It you would come to an anchor here, bring the Palm Trees on the little Hill to bear N. by E. and NN.E. and the fteep Point $\mathcal{V}$ by E then youm made m 20 to 21 Fa, about a L . tion the Shore: The great Riff lies caltward of Girway Kucr near: Ls, and $\frac{1}{2}$ L. Off of Cape 'Pabmas: you have a sery uneven Shore; firft the Current in palfing between the Ruf and the Caperuns with a prodigious force, the Riff caltmothe Stream movard: Secondly, The Rifflics under Water in $1 ;$ to 16 Fa . but r sarer it lics to flrangely foul and uncertain, that there is nothing ro bedone; it will be is Fa . at one Calt, and zo at the next: Therctore when you find the Shoal by your lecad, fiecr no farther caltward than S.E. till you get into 30 and +F Fa. when you will find it fall deep at once to () 1a. and foon ater to 100 , and then to no Ground at 200 F.

A little beyond this dangereus Shore is the End of the Ciman Coaft; the laft Negroc Town is call'd Robes, where Shapsrade tor Trade, tho at great hazard.

It is proper to obterve of the Grain Canft in gencral,
That from "Inmary to the middle of May, the Weather is moderate ; and that notwithltanding the Lat. of from + Deg. 20 Mm. to 5 Dcg .37 Min . the Heats are not exceffive, the Air is ciear, the Brecezes cool, and the Winds generally blow weflerly, bott Galce.

From the middle of May to the middle of Fanuary, the South beain to blow, and continue within the Points of due S. and S.W. blowing conftantly off Sca with great Violence, and making a terrible Surge upon the Shore. Allo they are very tqually, and have trequent Travadoes and Gufts; by which thole Ships that ride in the open Sca are in great danger of foundring at an anchor, or driving a-thore.
$\lambda$. 3 . Thofe Months are call'd the rainy Months, and are gencrally attended with great and conftant Rains, Lightning and Thunder.
E.N.E. from Cape Palinas comes in a little River calld Caevalice, dift. 10 l.s. This is the firft Place of Trade on the inogy or Tuoth Coafl ; it is but a fmall River, but opens very wide into the Sea. As you come from the weftward, you will open the Mouth of it, when it bears N wefterly from

Shore in $1 ;{ }^{t}$ low Point th: E.N.E. from Traflick: 'I Coaft for zol you come to mocks, high, twece this a three or four Tecth, and Rive: : But dered many with them.

The Negr ways about may anchor Nespors, wh
( ) ; ain is 1 Hill with w without Bran thereit. Bri you, and the N.N.W. and There $\operatorname{arc} \mathrm{M}$

There are Shore, fo th: is all along a

From Dr The Red Cl the Coaft, a it holds for a on that $\mathrm{Co} a$ chor there; The firft of Spot in it. Aludrew', w there, only our Pcople.

The shor Coalt ; for Fa. at 2 Ls. under the Po water here, parts into flallow, the in the rainy

Youmay The Coaft i 5 to 6 Fa . Tabaterra, Lchour.

From $\operatorname{Dr}$ is the Rive fimall places,

## he We fern Coafis of Africa.

Shore in $1 ;$ to ${ }_{15} \mathrm{Fa}$. good Gromad; but ceme mot rear the low Point that hes eaflerly, there 'tis very toul.
E.N.E, from fidyy Ls lics (?) min, a Townof fome good Traflick: 'Tis cafily known, tor that whereas anmed an the Coalt for 2 Ls is even and low ; here, for near :n Niles before you come to '/hnin, it is all hilly and cragy, fill of Hummocks, high, and very uneven; bigher th.n any where between this and Cupe Mormt. Theic is a Ruce here, and three or four Towns, where our Ships come to trade for Tecth, and the Negroes bring them in Canocs far within that Rive.: But take care not to go on Shore, for they have murdered many of all the E:ta oficul Nations that conte to trade with them.

The Negroe Towns are known by a Thicket of Trees always about them; and wherever you fee thofe Trees, yon may anchor as you find the Ground, and make Signals to the Negroes, who will come off to trade.
'/ ) min is known by three or four Tiecs on the Top of a Hill with two or three dead Trees without Leaves, and one without Branches, and one Hill with one Tree upon it W. of thereft. Bring that Hill and the Tree to bear NW. by N. from you, and the three firlt Trees (bearing cafterly from that Trec) N.N.W. and youmay ride in good Ground, and $1+$ to $1 ;$ Fa. There are Marks for other Bearings, but this is fufficient.

There are fome Rocks here, but they lic all clofe to the Shore, fo that there is nothing in your way; for your Courle is all along at, L dift. from the Shore.

From Druin to the Red Land, or Red Cliffs, is ; Ls, E.byN. The Red Cliff's is a Name given to a long Tract of Land upon the Coaft, and therefore is more properly call'd the Red Latid; it holds for about 7 Ls. There is a grear Trade tor Teeth up. on that Coaft, which occafions many Ships to flop and anchor there; fo that tis needful to know the Pace very well. The firft of thefe Rocks or Cliffs makes with a great white Spot in it. There is a River comes in among then, call'd $S$. Andrewi, where there is good Tratfick, but no Shys so up there, only Negro Canoes come down with Teeth to lell to our Pcople.
The shore here differs extremely from all the reft of the Coaft ; for it is fo flat and fhoal, that you have but 10 to : 2 $F_{\text {a. at }}$ L Ls. ditt. from the Shore, and you may anchor clote under the Point of $S_{t}$. Auduw, in 3 Fa. Youmay wood and water here, but you will get nothing to cat. The River parts into two within a L from its Mouth, but both to thallow, that even Canocs cannot go far up in them, except in the rainy Scalons.
Youmay anchor under any of the Red Cliffs, in 7 to 8 Fa. The Coalt is all even, and the Fair Way lics under Shore iu sto 6 Fa. paffing the River Frefio, with the Negroe Towns Tabaterra, Domera, and othcrs, till you come to Cape Lchon.
From Druin to Leloou is 20 L.s E. and E.by S. In the way is the River Cutro, or Catrehoe, and Catelaboe, and orher fimall places, but none of Note till C'ain le bou; 'tis known by

That from \% athay to the middle of $\lambda / d y$, the Weather is moderate ; and that notwithitanding the Lat of from + Deg. 20 Mm . to 9 De . $; 7$ Min. the Heats are not exceflive, the Air is clear, the Bisecaes cool, and the Winds generally blow wetterly, tofe Eales.

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N. li. Thote Months are call'd the rainy Months, and are generally attended with great and conttant Rains, Lightning and Thumder.
E.N.E. from Cape 1 a almas comes in a little River calld Cawallic, ditt. 101 s. This is the firf Place of Trade on the ieng or Tooth Coaft; it is but a fimall River, but opens very wide into the Sea. As you come from the weftward, you will open the Mouth of it, when it bears N . wefterly from you: It goes in $N$ by E. between two flecp Capes, and there lics agreat Rock duc E. from the Entrance; and E. from the Rock; Li lics a flat Pomt, to be known by a high naked Trec upon it, like a Maft of a Ship.

Oue L. trom the Mouth of Cazalia duc E. lics Groüa, a. Wegue Town, with 5 or 6 great Rocks juft before it, and by whech to is known: feveral of them lic under Water, and are therefore dangerous; but the Sea breaking upon them, difeovers where they are, and that is the Mark to know the Town by: Allo there is good riding beyond thote Rocks in $1-$ to isla.

From Gioceia the Coalt draws in to the northward, and trends away E.N.E. to another Negroe Town call'd Taba: the Coalt is good cren Land, only a little double toward Taba it felf: There is very good anchoring all along in the Fair Way, kecping 2 or 3 Gun-fhot from the Shore in 20 to 22 Fa. In the way you will fee two little Mountains like Sugar Loaves clofe together, and on the very Edge of the Strand, the fartheft is the highelt: To the caltward of thole Hills is a low flat Point rumning out into the Sea, with a Tree on the very Pitch of the Point, and rwo or three Rocks clofe to it on the Strand. The Négroe Village Tabo lics behind tome Trees which appear jut beyond the Point.

There is good anchoring before Tabo; bring the flat ?oint N.E. and N.E. by N. and the Rock on the Strand N.N.E. from you; and then you are in the bert of the Road, with 21 to 22 Fa. very good holding Ground.
N.E trom Titho lies Thano in a Bight, where there is clean Ground and good anchoring. The Fair Way all along this Shore is kecping about a L. off; bur at Thubo you run into a Bight, and anchor in $1 ;$ to $1+\mathrm{Fa}$. good Clay-ground, juft before the Village.
L.. by N. from Thabo 6 I.s is another Town, calld Berby, lying behind a Point, cafterly from the Hills; for all the Shore is mobutanious: You may anchor licre alfo at a $L$ from the

Spot in it. slndrew, v there, only our P'cople.

The sho Coalt ; for Fa. at $=I$.s under the ${ }^{\prime}$ water hero parts into lhallow, tl in the rain

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The Coalt 5 to 6 Fa. Tabaterra, Lehoul.

From 7 is the Riv fmall place a vory high onc Branch board you and bring $]$ them, for
$N . B$. and ho Coaft to the Shore
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Spot in it. There sa River connes in among them, cillid it. Alndrew, where there is good liallick, but uo Ships en up there, only Negro Canocs come down witi Teeth to tell to our I'cople.

The shore here differs extremely from all the reft of the Coaft ; for it is to that and hoal, that you have but 10 to 12 Fa. at $=$ L.s. dift. from the Shore, and you may anchor chole under the Point of S'\%. And wiw, in ; Fi. Youmay wood and water here, but you will get nothing to eat. The River parts into two within a Lrom its Mouth, but both to flallow, that even Canoes canot go far up in them, execpt in the rainy Scalons.

Youmay anchor mader any of the RedCliffr, in 7 to 8 Fa. The Coatt is all even, and the Fiair Way lies under Shore in s to 6 Fa. palling the River livifo, with the Negroe Towns Tabatcra, Domera, and others, till you come to Cape Lelious.

From Truin to Lchon is 20 Ls E. and E. by S. In the way is the River Cutro, or Catreloof, and Catclabor, and other timall places, but none of Note till Ciato la bou; 'tis known by a very high Trec itanding to the E. of it with a forked Top, one branch ftanding $E$. the other W. The Canoes come on board you here from the River Catreboe, and the Cape it felt. and bring Tecth in great Quantitics : but you muft beware of them, for they are all Thieves and Murderers.
N. B. This wape is the eaftermofl Land of the Tooh Coaft, and here begms the elnagua Coaft. N. B. Off of this Coaft the Curient fets gently, not above a mile an hour, to the N.E. by E. N. B. Youmull not venture near this Shore in thick hazy Weather, for you bave ao Soundings, but may be upon the Land before you are aware : you will have no Ground at 2 Ls from the Shore, and ${ }_{4}$ Fa. within I $\because$ L of the Shore.
You may ride under Cape la bou as near as you pleafe in 8 to 14 Fa.ftrong holding Ground. E. fiom La boul 5 Ls lics faco la bou: and 8 I s beyond that, in the lame Courti, is a place call'd the Bottomli/s $\%$ it, from the Depth being to grear, that you can find no Bottom with the longeft Linc: tome lay they have calt 600 Fa. and found the Lead draw. 'Tis allo 50 Fa. deep within Musket-flot of the Main; and when you come to that Depth, you muft anchor as foon as you can, Ieft you run right athore; but'ris 35 Fa in one place 2 miles from the Shore, and there is the beft riding. E. from Jaco la hou is Corbe labout, and one L thort is a littleCreck, which the Negrocs call Fackee \%ackee; of no Note, but that it is the firft place where you begin to trade for Gold, tho the Gold Coalt is not yer, and they do not get much ; however our Ships gencrally anchor here for the lake of it.

At Corbe la bou the Land is fo ftecp, that within a Stonc's. caft of the Shore you have so Fa. It lies due E. from 'faco la bou dift. 16 Ls ; and ${ }_{17} \mathrm{Ls}$ from Corbe la bonftill E. lics a little River call'd the Cofta, with a Rock on the W. Point, being the firft Rock on all the equata Coaft.

Between thete lies a Trading "own call'd Dorpin, , Ls E. of Corbe la bout; andat the in. cod of the Well, that is what

## Suiling Directions for the Weftern

is calld the Bottomlics sTit, you ride very near the Shore, and get Slaves, and fome littlc Gold alfo.
E. from Cabo la hou ${ }_{3} 6$ Ls, and from Dorpin 15 , is Afine, or $A /$ shinie: Thicre are 2 Negro Towns of the fame Name, Afline 'Piquino, and Alfine Grandec, they are 2 Ls afunder: At the firft begins the Gold Coaft, or the Land properly called Guilica; ; it is low here, but the Woods are very thick and the Trees high, and you fec the Negro Hutts as you fail by the Shore. You have very good anchoring off of Alfine spiquino, or Little Afinc, in io to 15 Fa . Water.

To the caftward of Little Alfine flands a great round Tree, amony feveral Clufters of others not fo high; thence you have low Land for upwards of 2 Ls to the greater Affine, call'd by our P'ilots Allbine ; it fands clofe to the Water's Edge : off of this Place you may anchor in 12 Fa .

From this Town, or a little Point juft by it, your Courfe is E S.E. to Cape $P$ laine ro Ls, a large Cape, with a Riff of Rocks rumuing out from it. When you come in from the Sca, and the Cape bears with you duc $S$. and $N$. then be fure to keep off in $1+$ Fa. at leaft, for you cannot anchor nearer.

From Affiuc to Cape St. Apollonia is i\& Ls. There are feveral Villages between, as Batto la ben, Tcblo Loggio, Eoc. and the River Cobra, of which the Cape is the caftermoft Point : From all thele the Negroes come off to you in Boats, and bring you Provifions, and fomc Gold.

St. Apollonizl is a high Cape, and makes a. Sca in 3 round Humnocks; the middlemoft very high: they may befeen a great way, efipecially weftward. There is no good anchoring nearcr this Cape than is Fa. the Ground being very rocky and tonl.
From Cape St. Apollonita the Coaft trcuds into a Bight, in which is the Town of Axime or Atzill: the Courfc is $\mathbb{E}$. by S. 5 Ls; the Land is low, and you may run along in 8 Fa. but mult come to an Anchor no nearer than in 16 , for the Ground is very toul. Herc is the firl Factory and Fore belonging to the Europectus; poifell by the Dutco. There is a River here, but 'tis of no ufe in Navigation.
From the Town of Axime to Cape 3 Points, or de Tres Tann. tas, the Courte is E.byS. This is by obfervation iol.s; tho the Piluts fay tis but 6 L.s, and the Courle E.S E. I take the firft to be the molt exact Account. This Cape derives its Name fromits Appearance, for it makes in 3 Points into the Sca. Ncar this Point the Subjects of the King of Prulfia have a Factory and Fort, on a Point formerly calld Vnipacke, 2 Ls fhort of the Cape Thrce Points: The Pruflians by their Fort command the Watering place at Thrce 'Points ; the Water is good indecd, the beft on all the Coaft, but very hazardous in the rainy Monelhs, and when the Sont/ls blow, which is feveral Months in the Summer.
If you would anchor here, bring the Tree which ftands on the fouthormoft or middllemoft Point ES.E. of you, and the 'p'ru/finu Caftle N.E. by N. and you may anchor in ${ }_{19}$ Fa. pretty good Ground.

From Cape Threc Tooints to Aquida is a Ls E. by N. here
 them, and made them go to the other fide of the Cape. This place may be known by a Point which fands out a little to the

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a time ; 'ris an excellent Road, the Bight being almoft as good as a Harbour.
E.N.E. from Secunda 3 Ls. the River St. Foin comes in, on the W. Point of which is a Village calld Sumn, or Shonna: Herc isalfo a Dutch, Fort and Factory. Herc you ride off the Caftle E.S.E. from the little Fort, and have 7 to 8 Fa. having the ourcrmoft Rock S.W. and S.W. by S.

On molt of the Ports on this Coaft, aN.E. by E. and E.N.E. Moon makes full Sca.

From Suma it is 3 Ls to Akitaki, otherwife Little Comsmenda: There are nany finall places between, fuch as $L o w$ Strand, the Red Lands, Cotobery, Fillorshillage, Arouy, Ballaft Hook, and feveral others ; at molt of which there is fome Bufincts.

Therc is a Riff of Rocks in the Fair Way of this Coaft, calld d the Black Riff, which the Sea breaks upon very violently: the Rocks lic about Camon-hhor from the Shore, mo!t of then under Water, and therefore very hazardous.
From Commenda to dmperluc is $1_{3}^{2}$ L E.NE. Your Mark for all this Coaft is the great Mountain call'd Gireat Comincuda, which ftands N. far within Land, but is feen near 20 ls off at Sca : bring this Hill due N. from you, coming in from the Sea, then you are fure you are right thwart of Little Commenda; you fee it alfo all the way from Ataum to Cape Corfe. To anchor before Little Commenda, bring the Town to bear N.W. from you; and being in 6 Fa. run a little to the eaftward, and there anchor, you have clean fandy Ground.

From Ampenie there runs out a Riff not far to feaward, but rather along with the Shore: Within it is good anchoring for finall Veffels in 4 to 5 Fa . But if you come trom the weftward, or from Cape three Points, efpecially alfo in thic'. Wcather, you mult not run within the Riff, but keep out in 15 to 16 Fa. and if it be dark, heave your Lead; if you find red Sand and is Fa. Water, and hear the Sea breaking upon the Rocks, fail not immediately to come to an anchor, left youre driven paft your Port, for the Current fets here very ftrong to the caftuard.

Eafterlv from Commenda, and from Amperic, E.N.E. 3 Ls, ftends the Cafte de Minas, or of St. Georye' ;'tis fituated on a finall Crook of the River Benja. Eafterly from the Cafte is a litrle Fort call'd St. Ingo: Here lies the Road, dift. from the Caftle about a Cable's length and half, there you have $S$ Fa. good Riding.

This is the Metrapolitan Factory of the Datch, and where their Governor refides: There are 2 Calles which overlook one another, and both command the Ships in the Road. There are feverai litele places on the Coaft, between Comonshla and the Caftle of Minas, which we have not nam'd, viz. Mina, Terra Pequitul, Monte Fott : the Coaft is full of Rocks and Riffs all the way.

From Caflle" Minas E. by $\mathrm{N}^{2}=\frac{1}{2}$ Ls, fands the principal Euglifh Caftle and Factory calld Cape Corre, or as we call it Cape Coaft: it makes from the weft like a Hill clofe to the Watcr's cdge ; 'tis feated on a Rock called Taborough, which lics far out into the Sca N.W. by N. and you have 8 Fa. juft by it, with good riding under the Guns of the Caftle. Thic Ground on all the Coaft is good holding Sand, fo that if you

Irom the Town of Avime to Cape ; Points, or de Tres Pan. tas, the Courle is E.byS. This is by obtervation 10 Ls; the the Piluts lay tis but 6 L.s, and the Courfe E.S.E. I take the firft to be the moit exact Accomnt. This Cape derives its Name from its Appearance, for it makes in $;$ Points into the Sca. Near this Point the Subjects of the King of 'Prulfia have a Factory and Fort, on a Point formerly call'd Unipacke', 2 Ls thort of the Cape Thrce 'Points: The Pruffians by their Fort command the Watcring place at Throe Points; the Water is good indeed, the beft on all the Coaft, but very hazardous in the rainy Months, and when the Jout/Js blow, which is feveral Months in the Summer.

If you would anchor here, bring the Tree which ftands on the fouthermoit or :middllemoft Point E S.E. of you, and the Prutfian Caftle N.E. by N. and youmay anchor in 19 Fa. pretty good Ground.

From Cape Tlorec Points to Aquida is = Ls E. by N. here the Prulficul Fort was firlt built, but the Dutcls got it from them, and made them go to the other fide of the Cape. This place may be knewn by a Point which ftands out a little to the caftward, having a very high Tree uponit.

From Cape Threc 'r'outs to Dick's Cove, or Dick's Cove, is 5 Ls; and from Alyuide it is 3 Ls L.N.E. Here is a Creck or fimall Inlet of the Sca, fit only for fmall Craft, as Shallops, Long Boats, Eve. In the middle of the Paffage in, is a great Heap of Stones, which you muft leave on the Larboard fide.

Here is a good Euglifh Fort, with a large Factory, and many Euglifh Ships go in to load Rice here.

From 'Dicky's Cave E. by N . it is 2 Ls to Batterow. Here is another ' Dutch Factory, but no good Fort; it lies on the ftecp fide of a high Cliffnext the Sca: you mult not come to an anchor hore, but almoft a L thorr, between that and Dicky's Cowe, where you have if Fa. geod Ground, and good Bufmefs for the Ships toading Rice.

From Batterow to Ayoba, which is the W. Point of the River Autem, the Coure is N.E. by E. and N.E. 9 Ls. There are many fimall places between, but of fimall import, as Pom. ponc, or 'l'onde'Tasarado, where there is a Point ftretching out a great way into the Sca: You cannot ride well before Tugaratio, but mult run on a little beyond it towards Sccuida, which is 5 Ls.

At the River Aitem, or rather ar the Point of Ayoun, the Dutch have a Factory with confiderable Traffick: you may come to anchor before it in 14 to 15 Fa . But there are to many Dangers, and the Ground is to foul, that it requires your utmoft Care, or you may lofe all your Anchors. There is a great Riff on the W. fide of Antem; you mult take care, and come no nearce to 15 than $1+$ to $I_{5}$ Fa. You will fee it by the Breach of the Sca upon it.

From Antem the Courle lies E. to Secunda 4 Ls; it lies in a finc clean Bight. Here are 2 Factorics, one of Euglifh, the other of 'Dutch; which caule much Shipping to ride there at

Tres Pun. $s$; tho the ke the firft s its Name Sca. Ncar a Factory Ls thort of Fort comatcr is good ous in the h is feveral
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the cattivard.
Eafterly from Commenda, and from Ampenic, E.N.E. 3 Ls, ftands the Caftle de Minas, or of St. George' 'tis firuated on a finall Crook of the River Beaja. Eafterly from the Caitle is a little Fort call'd St. Iazo: Here lies the Road, dift. from the Caftle about a Cable's length and half, there you have $\$$ Fa. good Riding.

This is the Metrapolitan Factory of the Dutch, and where their Governor refides: There are 2 Caftles which overlook one another, and both command the Ships in the Road. There are feveral little places on the Coaft, between Commouda and the Caftle of Minas, which we have not nam'd, viz. Mima, Terra Pequitu, Monte Fotu: the Coaft is full of Rocks and Riffs all the way.

From Caflle Minas E. by N. $2 \frac{2}{2}$ Ls, ftands the principal Euglifh Caitle and Factory call'd Cape Cor $\int$, or as we call it. Cape Coaft: it makes from the weft like a Hill clofe to the Watcr's edge ; 'tis feated on a Rock called Taborough, which lics far out into the Sca N.W. by N. and you have 8 Fa. juft by it, with good riding under the Guns of the Caftle. The Ground on ail the Coaft is good holding Sand, fo that if you are but fure of your Cables, you nced not fear your Anchors.

From Cape Coorfe to the $\mathcal{D a n e s}$ Hill is 1 mile ; 'tis an old Fort that formerly belong'd to the Danes: it is that good Factory, which the Euglifh bought from the Danes, and it makes the Capital Fort of Cape Coaft. One L E.N.E. is Fredirick's Bay, which was call'd fo by the Dancs, but 'tis now Euglifio.

Here is a very good Road between Fort Naffau and Fort Maur in 7 to 8 Fa. 2 Ls from Cape Maur lies Cormantin, the Courfe E.N.E. Fort Manr, or Maturice, belongs to the Dutch.

From Fort Manrice to Anifoam is 2 Ls N.E. by E. herc is a fmall Factory belonging to the Euglijb: From thence to Auimabo is i L N.E. by E. and here is a Fort and Factory belonging alfo to the Eughifs: bring the weftermoft of 4 Hills, which are feen above Cape Corfe, to bear N.W. from you, then you may anchor in 7 Fa . good Ground; 'tis a Factory of' good Bufinets for Slaves as well as Gold, and many Ships ride here.

From Animabo to Cormantine is 2 Ls E.N.E. 'tis the beft Road, as it is the bef Country on all the Coaft, and was oace the chicf Factory of the Eugligh on all the Gold Coaft of $A$ frica. There are 2 good Roads, and you may ride nearer and farther off in the tame Road: The Euslith have a very ftrong For there, which allo commands the Road, and protects the Ships that ride there ; and therefore the Ships ride for Safety tometimes clofe under the Guns of the Caltle in 7 to 8 Fa. good Ground, the Fort bearing N.W. by W. from you.
$N . B$. This was once the place where the beft Negroes were had; and therefore in the $I V e f t$ Indi.'s, to this D.y., tiey call the Gold Coaft Negroes, Cormant ine Negroes: and this is as ncedful to be known for guiding Pilots and Captains in their Trade, as the Sea-marks are to plot them into a

## Sailing Diretions for the Werpe

Port. $\quad N . B$. This Road of Cormantime is the beft on all this Coaft, for the cafincts of going in, and of putting to Sca again: which may be done here almoft with any Wind.
From Cormantive to Tarou, or Dajou, the Courfic is E. by N. 5 Ls, the Negroes call it T. 7 jou, our People call it Tag!?, and the Point under it to the E. they call the Rongl Point, becaufe it is cragey, and full of Rocks and Buthes: and the Road is wed chictly by Fithermen. Between ('ormantine and this Point lics Amene\%, or Alifferen Corncr, where there comes in a River, but 'tis ufelets in Navigation. except for Canocs; neither is there any Riding in the Mouth of it.

From this Point the Shore falls off a little northerly, trending N.E. fo that the Conte from hence lies N.E. by E. to the 'Zeril's Hill, as the Scamen call it, dift. = Ls; 'is a prodigious high Mount ain clofe to the Strand; and they call it the Devil's Hill, becaufe they fay many have gone up to the top, but none ever return'd : Others give a better realon, becaule great Travadocs and Gufts of Wind come down from it, by the Hill intercepting the Clouds.

Under the E. fide of this Mountain comes in a fmall River, Where our Ships get good Water, which makes the Road frequented, notwithitanding the Squauls which come from the Hill: The Road is good in 8 to 9 Fa on both fides the Dezil's llill; but if you go off into 18 cir 20 Fa. 'tis foul, and no good anchoring at all. The Roadberore this Hill is call'd Muggeo ; the Land belongs to the Engli/b Factory at Acra.
E.N.E. and E. by N. from Mangoo is Berke, or Borkia, but the Sailors call it Barvacoo; 'tis to be known at Sca by 2 very high Mountains behind it, whercof one is double at the top with a baddle: they are almot as high as the Devil's Hill, but full of 'Irces. Herc is a kind of a Haven made by fome Rocks, which lic off in the Sea juft before it.

From Barracoo the Coaft trends away ftill northerly, and 'tis 6 or - Ls to Acra, the Courle E.N.E. Acra is not a Factory, but a Seat of Factorics, being in a Bay, where there are 3 Forts and Factorics adjoining to cach other, one Englith, one 'Duch, one Dauth: The weftermoft is the Euglifh, and here you have a good Road in 7 Fa. good Ground; whereas farther caftward it is foul and rocky. Bring the red Spots, which you will fee on the rifing Land by the Sea-fide, to bear due N . from you, there you have the belt of the Road.

A little I. W. of Acra is a fmall River, but no frefh Water : the littlc hill near it is call'd Cooksbreed, which is a good Sca. mask, and well known.
N.B. All the way from Acra to Ningo there is no frefl Warer to be had. N.B. This is the caftermoft part of the Gold Coaft, adjoining to the Slave-Coaft.
Irom Acra all the Coatt is cover'd with Rocks, to that they are lisc a Wall or Fortification ; no Veffel, no not a Boat, can come on Shore, except where any Creck opens into the Sea.

From Aira the Courfe is E.N.E. 4 I.s to N'iugo Piquino, as the Porturuefe call it; but the Negroes, anc' our Sailors from them, call it Pikinine Niugo: Thence to a Negro Town call'd

## for the Werkeiza Coufts of Africa.

c belt on all f putting to h any Wind. urfic is E. by all it Tas", broint, bend the Road infe and this cre comes in for Canocs;
erly, trendE. to the tis a prodiy call it the to the top, ton, becuule mit, by the
fmall Riscr, a Road freme from the ; the Pevil's and nogood ld Mangeo ;

Porkil, but sa by 2 very the top with Il, but full of ome Rocks,
rtherly, and s not a Faccre there are Enslifh, one i/h, and here creas farther s, which you duc N . from
frch Water : a good Sca. no frch Wapart of the
fo that they t a Boar, can nto the Sca.
Piquino, as Sailors from Town calld

From Pany to Nins Cironnd is ; Is, and thance to Bayn 8 I.s E. and E.N.E. There are many fimall places betweon thete two, whore the Ships go a thaving, as they call it, and ride generally in the open Sca, fending their Shallops in to wait the Orders of the great Negro Yame's, who directs where they fhall ride. Thefe places are 'P'ram P'ram, 2 Ls. from 'Puny, and Asrico, 2 miles from 'Pram Pram, and Alampo.

All along the Coaft before thefe Towns you may anchor in 8 to 9 Fa. and fend your Boats, but come no nearer, becaute the Ground is foul. Alampo is a good Anchoring-place, in particular ; bring Segbill to bear N. by W. a little wefterly, then you are off of Alamso a little to the W. The Land is all along from Acra hithar full of 'P' alimetto- Trees.

From Baya to the River lolta is E.N.E. + Ls ; but the Land is all low and marthy, whout any Towns or Pcople, till you go up the River.

The Iolta is the firf River of any long Courle on all thefe Coatts, from Cape Sieroul Leon hither.

You will know the Mouth of the Volta by the freth Water far offat Sca; for the Channel is to great, and pours down fuch prodigious Floods or Frethes of Water, that it preferves its Tafte a great lengthinto the Sea; it allo difiolours the Sca Water for many Ls. Moreover, the Marks tor the lolfa are thus, as you come from the wettward, you will fee a long loine full of high Trees ftretching W. from the Main, and withia the Land a round Hill like a Haycock, and beyond that ancther.

When yon are in the Mourh of the River, you will fee ftrange Whelmings and Breaches of the Water Alrctehing away caftward; thele are occafion'd by a very great Riff of Rochs which lie off from the W. Point of the River, thwart part of the Channel, and which the Water comes rolling over like a Cataract or Waterfall.

Within this River are many Negro Towns, and much Trade; but you muft rmover the Mourth of the River in 8 to ${ }_{9} \mathrm{Fa}$ at a fufficient Diftance from thole Wheli....gs; and when you come to the E. Shore, the Stream is quiet and linooth, and you will run cafily up the River to what phace you pleate.

## Necdful Obfervations and Mircitions particular to this Coisft.

As'tis already obferv'd, that the rainy Scafons begin upon this Coaft in Ganuary, and hold on till $\lambda!!y$, attended with Tempefts, Hurricancs, Travadocs, and violent Gufts of Wind, it is needful to add, 1 . That thefe Storms and Hurricancs hold the fame upon all this Coaft from that part noted betore to this great River Volta, and tarther alto, as thall be feen in its place; alfo that towards the Volta and the Country of Be:ain, they have allo frequent Earthquakes with thole Storms, efjectially with the Triaradoes or Hurricanes.
2. The Land-winds feldom blow during thofe rainy and ftormy Scalons, but it blows all off Sca from S.W. S.W. i)y W.

Tu uch; onc $\$$ din:/h: The weftermoft is the Eingli/h, and here you hive a good Road in 7 Fa . good Ground; whereas farther caftward it is foul and rocky. Bring the red Spors, which you will fee on the rifing Land by the Sea-fide, to bear due $\mathbf{N}$. from you, there you have the belt of the Road.

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Irom Acra all the Coalt is covcr'd with Rocks, fo that they are lice a Wall or Fortification ; no Veffel, no not a Boat, can come on Shore, except where any Creck opens into the Sca.
 the P'ortugerele call it ; but the Negrocs, and our Sailors from them, call it Pikinize Niago: Thence to a Negro Town call'd Trimine, where the famous Negro Merchant Captain Fames, manages all the Trade, and directs all the Ships; he is Factor, Broker, and Merchant for all Nations; and if the Ships act without him, they may as well ftecr without a Helm, or ride without an Anchor: fo they call the Road Captain 'fancs's Bay. The Coutfe hither is N,E. by N. = Ls. This Trimine is call'd fably Toina.

From Trimine to Pums, or 'Pomperny, is 2 I.s E.N.E. Here is a Dutch Factory, and a good Road in the Bay, where the Sloops go up to bring Slaves on board: Here are 2 fmall Creeks alfo for Boats, which go in to fetch Slaves and frefh Water, but not far in.

## Sailing Directions for the Coafts of Africa, from the River of Gabon on the Frontiers of

R O M the River Volta the Coaft continucs to $B C$ $n i n$, and firf it ftretches E . by N. about $=$ Ls to Cape Montego, the I.and being low, and the Coaft appearing fuil of Trees, all alony; thence to Cape St. Pami 3 Ls E. Cate St. Pan! is a low Cape allo, falling off with a Tail of dry Sand, into the Sea; and the Land feems to to be broken and uneven betwixt them, fo that the dry Sand appears like an Inand.

From Cape St. Panl the Coaft lies N. E. cafterly; and at the dift. of 5 Ls lie three or four Hills clofe together, call'd Kitatra Montes: And 2 Ls farther is Cape Baxos, a woll known Point to our Traders in Slaves. E.N.E. 5 Ls farther lics a River ftopt up with Sand, with fome high Trecs on its E.. fide ; 'tis call'd the dry River, but in rainy Months it has Water enough.

Then youftecr N.E. by E. clofe by the Shore to Popour, a little Village ftanding on the Sea-fide, ditt. from C'ape Mon(ig) 19 Ls.
ali/h, and here hereas farther ots, which you ar due N . from o frch Water: is a good Sca.
is no frefh Waoft part of the
s, fo that they sot a Boat, can into the Sea.
yo'Piquino, as ur Sailors from ro Town call'd Captain Fames, ; he is Factor, Ships act with, or ride with. Fames's Bay. imine is call'd
E.N.E. Here ay, where the c are 2 fimall wes and frefh

You come to the E: Shore, the Strem is quict and tinooth, and you will run cafily up the River to what place you pleate.

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2. The Land-winds leldom blow during thole rainy and ftormy Scalons, but it blows all oflSca from S.W. S.W. by W. W.S.W. and the cafterly and loutherly Points; and therefore thole Winds are call'd the Soutlos.
3. The Winds abate in " $u l y$, and the Rains ceafe in $A n g l l$; tho the Sea will not be quice for leveral Wecks afterward : But in September it clears up quite, and gentle Breceas only fuccecd. and the greateft Heats are in December, when the Sun is at the fouthern Tropick.
4. On all thefe three Coafts they have two different Winds cvery Day, ziz. the Land Brecze beginning carly in the Morning, and the Sea Brecze which beginsat Noon.

## $f$ Africa, froin the Slave Coaft on the Rier Volta, to be Frontiers of the Country of Loango, civclufiec.

tinues to $B c^{\prime}$ about $=$ Ls to and the Coaft hance to Cape allo, falling off Land fecms to the dry Sand
ly; and at the gether, call'd Baxor, a well 5 Ls farther 1 Trecs on its Months it has
c to Popon, a m C'ape Mon-

From little Popon N. cafterly about 4 Ls, ftands Great Popon: And about 8 Ls N.F. by E. from thence, lies $/$ Whidals or Ardia. The Coalt all along between is low Land, with Trecs here and there.

There ftands three or four Clufters of Trees 3 Ls wellerly from IVbidals; the weftermolt is the largelt: one of thole Trees is of prodigious height, appearing at a diftance like a Tower; and about a I. welterly from W'ibdab, clote to the Sca, are two Trees more, with great round Tops, which fome call the Two Brotbers.

If you would anchor before $W$ 'oidal, you mult bring the two great thich Trees, that ftand within the Vitlage N. by E. and N.E. from you; then anchor in 7 or 8 Fa. you will have good hard Sand.

Eaftward from lience the Land is like a Foreft of Trees, reaching along for a great way upon the Coaft, and feen tar off at Sca, the Trees growing upon high Giounds.

## Sailing Directions for the Wefter

From Wbiddls you have a fair Coaft, bearing N.E. by E. about 8 Ls to the Cape Lagon, ands Ls more to the Paflage call'd the Channel of Lagon. Hicre the Tornadoes are very frequent, and may be forcfeen by the rifing of black Clouds in the W.and S.W. which commonly preceed them; which when you fec, you flould immediately hand all your Sails except your Forefail, which you may keep in the Brails to command your Ship, and run before the Wind, if you find occafion, during the Tornado; for what you get is to windward.
From Laxin, about a L. wefterly, ftands a double topt Tree, by which you may know the Coaft; and before the River a great Shelf that quite choaks it up, except at the E. fide. where you may row in with a finall Shallop or Longboat, tho not without danger of being overfet neither.

This Channcl alters five or fix times in a Year: For fometimes 'tis decp on the W. fide, then on the E. fide, and foanctimes in the middle ; but when at fhoalcft, you have 7 or 8 Foot Water.

In coming in you muft take care that you be not overfet by a rolling Sca : Keep to the caftern Shore, whether you come in or go out, becaule it always breaks very much upon the weftern Shore ; but within therc's depth cuough for Sloops and Yatchs: Then run along (having on the weftern fide foine Rivers, as the $A l b o$, and the ' 7 oda ) till you come before the City of Coran: From thence the Channcl runs E. by S. very broad, and fo tull of Stakes for Fillhers Nets, that you can hardly pafs thro' with Sloops, and not above 14 or 15 Foot decp.
Caran is a great Town, oncompafs'd with double Palifadocs, with Centincls continually watching at cach Gate ; it flows here much fooner than it cbbs, and it falls about 6 Foot up and down: The Ground is muddy above and fandy below.
From the River of Caran to \%abnsn your Courfe is E. by S. about ${ }_{1}$; Ls. This Town is likewife furrounded with Palifadocs, aud the Land thereabouts is broken and overwheln'd by the Sca; having feveral fmall Rivers on the main Coaft, and the Sca-fide full of Trecs. Your Fair Way lics in about two Fa. muddy Ground, and Sand underncath.
From \% \% $\%$ bum the Courlc is E.S.E. about 9 Ls to the River Primeira, which is a wide flar River, the Ground all flime and muddy, and not navigable but for fimall Boats.

Twelve Ls to the cafiward of this River the Land is all IDands and Crecks, and for the moft part drown'd, either by the Sca's ovcrflowing, or by the great Rains which always fall there in Auguft and Septcimber.

From Primeira the Courle is S.E. ${ }_{11}$ Ls. to the great River Formofia, or Benin; on the W. fide of which you'll fee many fimail Rivers making their way to the Sca.

Before the River 'tis llat for above 2 Ls and half over the Chamel, having at the highef Flood not above 14 or 15 Font depth, with muddy Ground, and dangcrous.

But your Way in, is on the orhcr fide, clocic by the S.E. Point, the great Shoal lying then on the Larboard fide: Being in the narroweft place, you'll have on the right Hand a little fandy Bay ; and when you are at the Point within it, you may ride in 8 Fa and Water cnough all the way.
dition from when you a Trecs on tl ben deccive on the Shoal have been lo have been d Camibals up
S. by E. the Coast all dy, and no

The Land other fide 0 Inands unkne practicable,

The Cape Watcr, that you fec the can fee neith you are, till

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If over 4 or 15 he S.E. : Being a little it, you when you come from feaward, excepr, as above, by the two Trecs on the Point of the former; fo that many Putors have been deccived in running up into it, till they came a-ground upon the Shoals; when too late perceiving their Error, the Ships have been loft, and the Men cndeavouring to lave thenfelves have been devoured by the ravenous Negroes, who are all Cannibals upon thofe Rivers.
S. by E. from this fatal River about 20 Ls is Cape Formor, the Coaft all along low and fill of Trecs, the Ground muddy, and no good anchoring any where.

The Land on one fide of the Cape ftretches N. by E. on the other fide ealtward, rumning into the Gulph among feveral Iflands unknown to us, the Paffages batween them being impracticable, muddy and thoal.

The Cape lies to very low, and as it were even with the Water, that the Trees upon it leem to fland in the Sea, and you fec them before you fee any Land: But in 15 Fa . you can fee neither Trees nor Land, to that you know not where you are, till you are almoft on Shore.

There always runs about by the caftward of the Cape a very hard Stream of frefl Water, during the Months of 'In'y and Atyuft ; to that thofe who fail upon this Coalt at that time, fhould come no nearer than 8 Fa. which is about a $L$ from Land: The Ground is to muddy that you can hardly get your Lead out of it, much harder to get your Anchors cat ; and they will hold no purchale neither, the Mud is to toft tho heavy.

Scven Ls from Cape Formafa E S.E. lics the River Nor, a little narrow Riter of no ule ro Navigation: And caftward 5 Ls from thance lies the River St. Ilite Fraza, or lideplonfin,
 along by the Sca fide, juft within a narrow Slip of Land nor half a Mile broad.

And farther again, about $=$ Ls and half, lies the River St. Barbaria, or Mlea.

From the River Mea 6 Ls cafterly lies the River Baraba. lemo, on whofe E. fide ftand two Stakes like Matts of Ships, by which you may know the Place. All thefe Rivers flow into this opening, S. of the Cape; and fometimes Ships Boats go in for trade, but tis very hazardous as well as difficult, becaufe of the Cannibal Negroes. You pals along by them all in 8 Fa . and at the dift. of 2 or 3 Ls from the Shorc.

From hence is no manner of Traffick on this whole Coaft; for the Ground is to very foul, and the Inhabitants fuch Monfters, that there is no coming among them.

From thence you come to the River Soml'r ro, before whore Mouth it is to flat, that you muft keep off to teaward, quite out of fight of L.and.

You may run along from Cape IVrmofic to the River Sombrero, in S Fa. Clay Ground; but near the River it breaks = Ls off from the Shore, and is flat and thoal 5 Ls more: But there is nothing loft by it ; for as the Shore is bad, to the People are worle, and you can have no Bufnets among them; and our Sailors always knock'em on the Head when they meet with them.

From \%ibum the Courte is E.S.E. about 9 Ls to the River '/rimeire, which is a wide flat River, the Ground all flime and muddy, and not navigable but for finall Boats.

Twelve I.s to the caftward of this River the Land is all 1 IJands and Crecks, and for the molt part drown'd, either by the Sca's overflowing, or by the great Rains which always fall there in $A u s u / t$ and september.

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Before the River 'tis that for above 2 Ls and half over the Channel, having at the highen Flood not above 14 or 15 Foot deprh, with muddy (iround, and dangerous.

But your Way in, is on the other fide, clole by the S.E. Point, the great Shoal lying then on the Larboard fide: Being in the narroweft place, you'll have on the right Hand a little fandy Bay; and when you are at the Point within it, you may ride in 8 Fa . and Water enough all the way.

The Village Analambana alfo ftands on the weftern Shore of that Bay. There are two other Rivers fall into the great River on that fide; the firft you pafs by, the fecond is a confiderable River, and has a decp tho narrow Channel; you may fail up into it 25 Ls : On the Bank of this River ftands the City of Aismma.

And about ${ }^{3}$ Ls farther up the River Benin, on the E. fide, flands the great Гown of Caton, or Bemin, the Capital of the Country, and Scat of thair King: Hither our Shallops go frecly up, and the Channel is good.

From rlic River Benin, about ${ }_{4}$ Ls foutherly, lics the River Rorocan, a hetele hallow River, on whole N . fide ftands the Negro Town called Rogocam, and on the S. fide the Village Arobo.

From Aloho about 2 Ls and a half, lics the River Efilurios, from whofe S. Point falls off a very large Riff, or Shoal of Sand, reaching + Ls to feaward, being not above 3 Fa. at the decpeft, and in fome places not above $;$ Foot : fo that with a great Ship on this Coaft, you cannot come to near as to fec the Land, without danger of running a-ground.

From the River Ffifaros s Ls to the louthward, lies the Rivertorctatis; in the Fair W"ay there is 12 Fa good anchorground, but on the S.E. fide there's a Flat falling down from the Land, with a Rilf reaching off from the $N$. fide about a $L$.

Whea you come into this River, avoid the S.E. fide which is flat, and the N.W. which is hoal; and run cafterly into it, in the Mid-channel.

The River has two Branches reaching up to landward; but 61.5 up in the I.cft hand Branch, lics the Place of Traffick.

The River is known only by two Trecs greater than the reft, that fland on the S.E. Shore.

To the louthward of this River, about 12 Ls from hence, lies the Riter Lamas, not much differing in Depth and Con-
limo, o by whic to this go in becaule all in 8

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You may run along from Cafe rormofic to the River Sombrero, in S Fa. Clay Ground; but near the River it breaks 2 I.s off from the Shore, and is flat and thoal; Ls more: But there is nothing loft by ic; for as the Shore is bad, to the People are worle, and you can have no Bufincts among them; and our Sailors always knock 'em on the Head when they meer with them.

Eaftward 8 Ls off from the River Sombrero lies the River Royal, whofe Mouth is about 7 Ls wide, and 'tis 2 Ls wide within at the E. Branch, and I L at the W. Branch, fome Miles up the Stream, and decp Water too.

As you come along in 8 Fa. from the W.towards the Opening of this River, fo you mult go in by the W. Point of the River in 5 or 6 Fa. but take care to go about a little Sand Bank which falls off from the Point; it may be leen by the Breakings of the Sea upon it, and you muft therefore kecp to feaward round it, and that not in lel's than 3 Fa . Then run N.W. along, ftill keeping in the fame depth toward the Tead I/land; call'd fo, becaufe here the Chriftians bury their dead. Then fteer to the W. Shore, to the Inland of Foche, where you may come to an anchor with more Satistaction; for there you'll meer with peaceable and rational Negroes, and you may put into their Rivers with fafery, and have great Traffick for Slaves.

In coming from deaward to Bary, a Port on this Coaft, you muft be very cautious of the Shoals and Sands which lie thware along the Mouth of the River: You may avoid them by running to the eaftward, till you come near the River Ahdony; then keeping in 6 Fa. by the Shore, run along till you are in ${ }_{4}$ Fa. near, and palt a Cape call'd the Rough 'roint. When you are got about the Point, you may come to an anchor in 10 or 12 Fa. flelered from cafterly and fouthe:ly Winds.

In this River Bany is the Ifland call'd, as above, the Dial Iflard; you may be fupplicd there with Water and Wood at pleafure : But you muft run above the Illand, founding thro' as you go berween the Banks in about 2 and half to 3 Fa ,

Ar the $N$. fide of the ealtern Brameh of this River, you'll find a Read or Haven fit for Ketches; and many fach par in here for Trade, coming from Cap; de Ferde IMands: Near this Haven ftands the Village of New Callabar, the chicfelt

Phace

Place for Merchandize in all the Country: The Trade is for the molt part in Slaves, and the Village is furrounded with Palhidedocs atter the Country manner.
N. R. At Caran an E. and E. by S. Moon makes high Watcr. At the River Beitin an E. and W. Moon makes high Water, where allo it flows in, Hours, but cbls out 9 .
The rainy tempentuous Sealons are the lane here, in the fouthern Latitude, as in the like Degtees of Latitude N. on the Coaft of Cimmer.

## Sailing Tirections from the River Andony to the Rivi; Gabon.

AB OUT fix Ls caftward from Audory comes in a creat wide River calld Callibare ; in the Mouth of it lies a Sand Bank to ceaward, reaching off a great way: It may be known, as you come from the weltward, by the braking of the seaupon it ; however, you may go on, kecping off from it in 5 to : Fa, on cither fide of it.

About ols caftward from thence lies the River Rep, or the $A$ higs Rizer, which is very ercat and wide, but exireme muddy and thatlow, not above; Fa. Water at the deepeit.

In coming from the weltward to the River Res, youmay found over the Banks of the River Cithabare, in ; to 5 Fan then with an E.N.E. Tack you fall cxactly before it: As you go you'll fee abundance of Stakes to which the Fithers fancu ther Nicts, but they fand all in, Fa. fo that you may boldly fail betwsen thom, and they ferie inftead of Buoys.

The Town of the lame Name lies on the $W$. fide of the Rit, at the Point of a limall River: Youmay ride clofe to it, in $;$ and 3 Fa. and if you pleale you may run half a L higher to another finall River, from whence the Rlacks bring down Tecth and other Commoditics, as allo from another River hagher than that.

In lailing from the W. Point of the River Rey, ftecr E.S.E. over a flimy muddy Ground, an 4 Fa. along the Coaft: But if you go by the Ambiffer, W. of the Mand, then you muft keep in 81012 Fa .

From the high Land of the Amboifes to Camaroon, you fall along by zor 4 Rivers, with feveral fmall Villages inhabited by Futhermen; and farther you'll fee abundance of Nets hung upon Stakes on the faid llimy Ground: Alfo youll lee feveral Cliffs upon the Main, as alto others among the llands, all of prodigious fecpnets and height; but you mult make your way lotwecn the Iflands, and if you mult anchor Iet it be m 7 Fa . at Icaft.

As youfail from the high Cliffs to the Ifland of Ambifos, you muft flecr S.S.W. to rach Point Bato; and when you are in $\mathrm{S}_{\mathrm{a}}$ and ofa. above that, you muft run towards Ciape Ciamar,on, wherchy you may get into the River.

The caftermolt of thefe inlands is of fuch great height, that it is fuppoted to be as towering as the Y'ico Teicriffe': It yichls abundance of Provifionc, good Palm Winc and Eifl,
come to t! the fouth you may be carclul hard Sand at low W which lic upon the ${ }_{4}$ Fir. W muft be that at 0 ground : that t.ar to as thoal at
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iffic: It
come to the Mouth of the River at the Secep Point, Recp to the fouthward till in ${ }_{4}$ Fa. then W.S W. if it be a Land Wimd. you may go right out to Sca, but with a Sca Wind you mu! be carctul, for about half way into the River lics a Bank ot hard Sand, which tho it is but about two Ships lengeh broad at low Water, is very long and thoal, cfpecially at that End which lies up the River, where at low Water therc is but; foot upon the Sand; however, on both fides you will have about ${ }_{4}$ Fia. When you are as far out as to fee buffis flumed, yot munt be very coutions, for then 'tis of tivh maccitain depth, that at one Catt you have ; Fa and at the next you'll be at ground: But on the N . fide you can receive no harm, for it's that tar to teaward gute to biuft's !/lamed. fo that you may rum as thoal as you platic: 'Tis alfo lhat loft Ground o or 10 Ls off:
S. by 1. Ioutherly from the River Camaron, near the Shore, flands the fimall I/lind Brathra, having all about it foft and that Ground, but with good Somdings; io you have nothing to do but to keep the Lead going.

From Camaroon the Shore trendsaway S. by E. 7 Ls to the River horen, a floal River, only palfable with fimall Boats, wheh draw not above ${ }_{4}$ foot Water.
Then you get the high Land again, lying in Lat. 2. $45 . \mathrm{N}$. Here cis flat to a great diftance off, but not to that as before the C.imaroon, your Lcad will direct you.

From the thand Branca the Courfe is moft S.S.E. 7 L.s, to an Inand calld 'Pan N'azia, the Coalt bearing on the lame way; and between them upon the hidh Lands, you'll Ice abundance of Cyprets or Palm Trecs. There lies a great Bight on this Coant, behind the Illand 'Pan Nawia, call'd the Bight of 'T'an Navia, where there's very good Ground, as there is allo between the $S$. fide of the Iflud l'an Nura, and a Point on the Main calld Gagane: Youmay pals alone to the faward o. this Illandin is Fa. beine then not far trom a Sand calld the Stare, which for the moit part is very ficep; bue therc's a Foot Serand betwixt the flland 'Pan Nacia and Point Gayara.

Southward from Gavara comes in the River Campo, on whofe S. Point lics a Stone Bank ur Sheal ; the Sea breaks on it with great violence, and it appears dry at low Water: From thence you'll fee to the landward, on the Main of the Coaft, two round Hills; and a littic farther another long Hill, by which yons will mark the Coaft.

On the S. fide of the River Campo lies a great Bight, wherein there's good anchor-ground in 6 and +Fa . as allo grood Ballaft and frelh Water may be had: There fland a few Houlfes licre and there clofe to the Water fide, and you'll fee to the Land Scven ill-flaped Hills lying in a Row: The Coaft all along is very low and bare, and the Serand is fecon at low Water to be a clean hard Sand.

From the aforefaid Bight it is 7 Ls S.by W. to the River St. Bennet, a very flooal River, on whofe N. Point ftands a great Hill calld the Haybarn: There alfo trends a Riffalong the Coant on the W. fide of the Raver, with tome Cliffis both above and under Water, th the iandral pate of the biver

Fiom the high Iand of the Airbaifis to Camaroon, you fail along by $;$ or + Rivers, with feveral finall Villages inhabited by Filhermen; and farther youill fee abundance of Nets hung uyon stakes on the faid llimy Ground: Alfo yon'll fi - feveral Clitis upon the Main, as alto others among the Illands, all of prodigious flecpucts and height; but you muft make your way fetween the Illands, and if you mult anchor let it be m F Fa. at lcall.

As you fail from the high Cliffs to the Ifland of Amboifer, You nunf feer S.S.W. to reach Point Bato; and when you are in sand, F.s abore that, you muft run towards Cife Camarron, whercly you may ger into the River.

The caltermoit of thele tilands is of fuch great height, that it is tuppoled to be as towering as the $\mathrm{P}^{3}$ ico Tencrifie: It yuclds abundance of Provifions, good Palm Wine and Fifh, but no great Trade: Yet Ships ride at anchor before it to buy shanes and Tecth, brought hither from Comaroon, as alfo fometimes for the take of good Shelter in calc of contrary Winds.

Bato lies betwern two Points behind the Ifland of Amboifis, and therely ftand fome Pala Trees, with one in height excoading all the reft : youmay anchor before it, but it would not be amifs to moor the Ships, becaute of the Whirl-winds and iwden Gutts from thic Mountains.

From the Anboifis the Courfe is S.E. by E. to the River Comarooik. You may found the Sand Bank mentioned above fiom the N. Poine, and go over it with lafety, in 4 Fa. then rua on till you come into 8 or 10 Fa. then failing farther up, you will have : or a Fa. at low Water, all foft Ground, and : more at high Watcr.
When you are paft Monnt Siviar, you muft edge again toward the northern Shore, to avoid a Bank that lies at the E. fide, and reaches above half way over the River: Then kecp the N. Shere, thll the little River thar comes out of the Foreland, calld the Old Hole, opens. Then keep over again to the S. Shore, to another little Rivcr with an adjoining Village calld Aononbas Hole; you may anchor in 3 ta. within or without it, and in foft ouzy Ground, this being the ufual Place of Trade for this part of thic Country.

Oppofite to Monombas Hele on the N. Shore, lics another anchoring-place calld Teetb Holc, where you have good Ground in 5 to 7 Fa .

About 10 Ls and hali out to the Sca, S.W. from this River C.anarcoin, flands the Ifland Formando 'Poo bcing a high Ifland commonily covered with Clouds, but woll inhabited with Acgious; there grow abundance of Sugar Cancs, but you math be carctul if ycugo a-fhore for Wood, E̛c. for the Inhathents are very batbarous and treacherous.

As you come out from Alonombas Hole, if in ftill Weather, Sumafthave your Boar a-head of your Ship, to avoid a Bank whin comes offitom the fouthern Shore: And when you
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c, lies another ut have good from this River g a high Ifland nhabitcd with ancs, but you sic. for the In-
n fill W cather, $o$ avoid a Bank nd when you
 S. Point hiss a Stone Bank or Shoal ; the Sca breaks on it with great violence, and it apears dry at low Water: From thence you'll lee to the landward, on the Main of the Coalt, two round Hills; and a litule farther another long Hill, by which yon will mark the Coalt.

On the S. fide of the River Campo lics a great Bight, wherein there's good anchor-ground in 6 and + Fa. as alto good Ballaft and freth Water may be had: There ftand a few Houfes here and there clofe to the Water-fide, and you'll fee to the Land Scren ill-fhaped Hilis 'ying in a Row: The Coaft all along is very low and bare, and the Strand is feen at low Water to be a clean hard Sand.

From the aforefaid Bight it is 7 Ls S.by W. to the River St. Bennet, a very fhoal River, on whote N. Point ftands a grear Hill call'd the Hasbarn: There allo trends a Riffalong the Coaft on the W. Fide of the River, with fome Cliffs both above and under Water, of the inward part of the River.

The Country from this Place appears full of high Hills, and the Coaft all over Trecs; nor are you far from it, when in is or 20 Fa . You go into this River between two flecp Points, having 4 or 5 Fa. at No Entrance.

From this River St. Bennet the Coaft trends S by 1. and then E.S.E. being all in the light: The Land is cven and plain; but to landward, cafterly from you, lic three high Rocks or Cliffs all in a Row, whercof the northermolt is the higheft.

The Coaft runs from hence for the moft part $S \mathrm{~W}$. to Cide St. Yoln, with a Bank reaching off along the Shore; and about a $L$ to the faward off the Cape, lies another Bank, having 7 or $S$ Fa. Water upon ir, which when you are patt, you have 14 and 15 Fa. all the way.

About 5 Ls fouthward from Cape St. Yoln lies the IMand Korifio, or the Ifand of Ligbtuing: The Land towards the Sca Coaft is gencrally landy, except to the N.W. Where it is ftony. The Country within is overgrown with high Trees; but the Land is folow, that the Trees feem to ftand in the Water. Coming from feaward approach no nearer than ofa. becautc of a Stonc Riff which runs off from the S. fide; and as you fail thro' betwixt the Cape and the llland, noareft to the Ifland, you have fhelly and gravelly Ground; but when near the Cape, you have ftony Ground.

Cape St. Yobn is block'd up with a Ridge of Rocks lying juft before it, to that it has no Foot-ftrand. Off at Sea from this Cape the Currents or Tides mect with great violence; and the Ground being very foul and cliffy at Botton, the Water coming from the $S$. beats very hard againt this Point, and then runs along to the northward. When you have patt this Cape, the Coalt falls to the S. caltward, without any confiderable Hills, for a great way.
W.by N. and W.N.W. diftance about 2.4 Ls from Cape St. Yolnn, lics the Prince's Iflumd. The Land is high and full of Trecs, with a very fine Bay at the N.W. fide of it, where there is good riding, and you may lic as near as you will.

There

## Sailing Directions for the Southe

There lie three fmall Iflands on the E. fide, and another on the W. fide. This hland affords good Refreflhments in abundance. In failing from the River St. Bennet to Cape Lopez Gonfalers, you mult mind which way the Travadoes drive the Warer; for the Sea flows from whence they arife: And if you lie at anchor when the Travadoes begin, you muft weigh with all fipeed. and get off: If it be in the Morning, kecp to feaward till Noon; then make again to the Shore with the Sea Wind; but if the Winds do not alter at Noon as ufual, you muft (for all that) tack about for the Shore if poflible, and anchor as well as you can: But approach no nearer the Shore than 12 Fa. for 'tis very foul upo.. all this Shore, and in the time of the Travelo's the Water runs about by the North.

In lailing from Cafe St. Fobn and the Illand Korifo into the Kuver a'Angra, or Anger, as fome ignorantly call it, the Courfe is E.S.E. till palt Korifco, keeping a good Offing all the way, becaute of the Rocks towards the Cape: Tlus , vall come to
 will fee a little River on your Starboard fide, which you pafs, and to along, rill you get another River near a high loint on the Starboard fide: This River draws you in very hard, to that in fill Weather you rum into it with Eale, and fometimes whether you will or not.

In tailing from the River d'Angra to the fouthward, fome liy the thortelt and beft way is to go thro' between Korifco and the Main, foutherly from the River; for there is a hard and livit Stream, fo that you may run freely that way: nor need you pueftion the Depth; but there are fome Ihands on this Contibetween Korifoo and the main Land, whechare danecrous.

Cape Lope $\approx$ Gonfales is a low Land, with a very long Point theoting out to the weltward. If you would :nchor here, bring the Pitch of the Cape N.W. half W. and the S. Land S E. halt $S$ and youmay place your Anchor in 6 or 7 F. but the Ground is very itecp, and the Currents very variable, fo that they ought to be caretully obferv'd and allow'd tor.

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\left\lvert\, \begin{aligned}
& \text { The R. Rey, an E. and E. by S. } \\
& \text { bato }
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N.B.Ar< R. Camaroou - E. E. and W.

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Salug T)irections from the River Gabon iucherive, to Cape Lopez Gonlales, thence to Loango, Congo and Angola, and on Southerard, to the Cape de Bome Elperance, aifo iachefive.

The S.W. fide of the Shoals of the Illand Korifio lies almoft E. and W. of Cape Eftirals, which is the S. Cape of the River d' Augra. Cape Eftires bears N. by W. and S. by E. with Cape ist. Yoln dift. 7 Ls: From the Cape the Shore trends away S. making another Cape, pointing SW. by S. dift. about 5 Ls; from whence falling off again inte the Land E. by S. it makes a deep Bight, call'd the Bight or Bay of Effiras. In the Entrance of this Bay is an Ifland coven'd with Trecs, within wheh there is good Atechoring: The S. Pont of thes Bay is

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Bring th and then $y$ the faid sa go off fron Water will the S. Poin Way upen and wide e

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3 Point s, bring E. halt Gromend ought

There is a Bank or Shoal of Sand on the S. fide of the Entrance, which lies very flat, and has not above 2 Fa. fretchiag. out in a long Tail to teaward. On the N. fide of this Sand it is fteep, but on the S. fide very flat, as above.

Bring the S. Point of the River to bear F.S.E. and S.E. by E. and then you may ftand boldly in towards ir, to kece clear of the faid Sand; for then the Point is fteep enough, and as you go off from the upper Corner of the Bank to the River, the Water will decpen to 6, 7 and 8 Fa. Kecping thus off from the S. Point, and clear of the Bank, you will have the Fair Way upen to you, to fail between the Mllands. "Гis alfo deep and wide cnough to turn it up, if there is occation.

You may anchor under Parrots Ifle, and lic fafe at the E. cnd of it, to as to walh or clean, or mend your Ship's bottom; the Ground is foft and good: there is a sand lies off indeed from the W. end of the Illand, which you muft take care of; but you will cafily find it by founding with your Boat. But if you would lay your Ship on Shore at the E. end, as above, obferve that there ftands a gieat Tree os a Point to the N. of the E. End, which you willleave on the Starboardfide; and then run along between two Stonc Points, dropping one Anchor io feawards, and the other on the Land fide to haul in by: then as the Tide rifes, you haul in gradually, till you come aground, faftning with ${ }_{4}$ Ropes to the Cliffs.

The Tide rifes here 8 to 9 Foot. Having finilh'd what you had to do here, you haul off; and running along the S. fide of the Mland, you anchor again in 10 to 12 Fa. to take in Wood and Water. From hence you mult watch the Land Winds, which come in the Morning, to go out to fea, keeping clofe under the Shore: youhave 3 to 4 Fa a Gun-hot from the Shore.
N.B. The Bank on the S. Shore of che River Gabon wears out every year; it is not fo thoal by almoft a Fa. now as :- was formerly : the Sca ripples much upon it, and makes a very great Noile there, efpecially on the Ebb.
Due W. from the Mouth of this River out at Sea, dift. $\dagger^{2} \mathrm{Ls}$, lies the Inc of St. Thon:as: Tho the Equinoctial Line crofles its Center, yct the Air is moderate, and ir yields abundance of Cattle and Refreflments. At the E. inde of it is good Anchoring; the Road is called the Road of Anne Chares, being under the Lec of a great Rock called the Ifland of Anue Cbares. At the $S$. cond of the main Inland is another little one calld Rotes, but by our Sailors the Ifec of Rats: there is a funall Rift off of the E. end of the Inand; and caftward of the main Inand a Clufter of Rocks above Water, called the Ironioes. Between thote Rocks and the Riff is a very good Road in 25 to $; 0$ F.s. hard Sand.

To fail from the Cabe de Verde, or from the Ceaft of Gu:u'a to this llland, you muft mind the proper Scaton, $2:$ During the Vintaniss and I.and Breczes, which hatt from Abrilto $S_{i}$ pteinber, flecring W. and W. by N. till Night, becauic of the Currents, and fland in with the Shore in the Diy.

To anchor iu the Road off Rotes, bring a great Tree which you wall lee upon the Itland, and the S.W. Puint to bear louthcrly fromyou; then you are in the beit of the Ground.

If you come in at rhe N . and of the lland, you mi,ke, the five.

The S.W. fide of the Shoals of the Ifland Korifon lies almoft F. and W. of Cape Eftivas, which is the S. Cape of the River d' Alycia. Cape Efficus bears N. by W. and S. by E. with Cape is. \%oby diift. 7 Is: From the Cape the Shore treuds away S. making another Cape, poimting S.W. by S. dift. about 5 Ls; from whence falling off again into the Land E. by S. it makes a deep Bight, calid the Bight or Bay of Effiras. In the Entrance of this Bay is an Inland cover'd with Trees, within wheh there is good Anchoriug: The S. Point of this Bay is calld Cape Claru, and a hittle beyond it S. opens the River St. Clara; you pals by the Mouth of it in ${ }_{15} \mathrm{Fa}$. from thence S. a hette cafferly, you come to the wide opening of the great River Gabou, the greatedt River and the greateft place for Shipping and Commerec on all the Coaft, from Cape Furmofic thither.

The Cinton, lies directly under the Equator, and right E. and W. with the lland of St. Thomas. The Entrance into it is very wide, and as you come from the northward very uneven, rocky and fony; fo that at one Caft of the Lead, you have 15 to 16 F.a. at the next 5 , and at the next faft a Ground. But the Eberance is fo wide, that you have fhifting enough, and your work is to ftand over to the S.E. and S.E. by E. and then yo: have Depth enough: If you come from the fouthward, and are abour the S. Point, keep the S. Shore aboard as you go up: and tho you may have fome foul Ground here and there, as you come about, yet you may ride with great Sccurity almolt where you pleafe on that fide.

When you are run up fome lengeh into the River about 2 to 2 La, you will fee two lllands, one called the Popping jay or Ifie of "'arrots, and the other the King's Ifand; they lic abreaft of one another, and you may run in between them E S.E. ill 7 to Fa. but keep off from thic N. Shore, for the Ifland is foul. The Anchoring-place is known by a Clufter of high Trees, and a Bufh ftanding under them; there you have $3^{\frac{1}{5} \text { Fa. }}$ yood Ground, but foft; if you go into the River by the S. Shore, keep off from the S. Point, at leaft in $3^{\text {to }} 3^{\frac{1}{2}} \mathrm{Fa}$.

Cape Cllarc, which, as before, is the N.Point of the Entrance of the River, is very high Land: you have fair Ground, and may come as near the Cape as youpleale in failing along, but come no ucarer than :o Fa. to anchor.
N. B. The Flood in the River Gabon fers up E.N.E. and the Ebb fets out S.W. and W.S.W. and the Stremm runs excceding frong, clipectally out. the River by E. with re trends adift. about 5 E. by S. it ras. Inthe recs, within this Bay is he River St. thence S. a he great Rice for Shiprormofa thi-
right E. and ato it is very ery uncuca, 1, you have : a Ground. inc cnough, :. by E. and a the fouthcaboard as nd here and great Sccu-
rabout 2 to ppiusjuy or they lic a. them E S.E. he Mland is Iter of high have $3^{\frac{1}{2} \mathrm{Fa} \text {. }}$ he S. Shore,

## he Entrance

 iround, and galong, butN.E. and the uns excced-
i.s Center, yet the Air is moderate, and it yields abundance of Cattle and Refrethonents. At the E. fide of it is good Anchoring; the Road is called the Road of Anne Chares, being under the Lec of a great Rock called the Inand of Anne Chares. At the $S$. end of the main Illand is another little one call'd Rotes, but by our Sailors the Ifle of Rats: there is a finall Riff off of the E. end of the Iland; and caftward of the main Ifland a Clufter of Rocks above Water, called the Irmaoes. Between thole Rocks and the Riff is a very good Road in 25 to 30 Fa. hard Sand.

To fail from the Cape de Verde, or from the Conft of Guinea to this Illand, you mult mind the proper Seafon, viz. Du. ring the Vintanies and Land Breczes, which laft from ABrilto September, ftecring W. and W. by N. till Night, becaule of the Currents, and ftand in with the Shore in the Day.

To anchor in the Road off Rotes, bring a great Tree whicin you will fee upon the Illand, and the S.W. Point to bear fouthcrly from you; then you are in the beft of the Ground.

If you come in at the $N$. cnd of the Illand, you miake the Land as if it were two Itlands: Keep your Courie E. by S. till you have brought the Caftle W. by S. and then you go firir with the Road. You munt not go right in with the Caftle, for there you will find a very uneven bottom, fome cimes 30 to 40 Fa. and at the next Caft no Ground, and thea as fuddenly 15 to 25 Fa. or perhas fo thoal, that you may fee the Breakers upon the Rocks.

Berween this Ifland and the Main is 40 Ls , and the Courfe duc E. but to Cape Lopez the Courle is two Points to the $S$. crofs the Current, which tets ftrong to the N.N.E. at the rate of 5 miles a Warch. The Coalt is very fteep and uncertain.

If you would anchor at $S$. Thomas's to ride for any time, the beft place is about Gun-1hot to the northward of the Caftle in 5 to 6 Fa . or if with a mall Vcifel, in 3 to 4 Fa . there you have good Ground and tecure Riding.

From rhe Illand of St. Thoinas to Cape Lopez Gonfales the Courfe is E.S.E. 37 Ls.

The Ifland of Fintas lics S. from the River Gabon 6 to 7 IL , the Shore between cover'd with Trees. Then begin the Flais, which lic out to tcaward between the River Nuzar and Augrat; where Caution muft be uled, elpecially with great Ships, not to come nearer than into to to 12 Fa. Small Ships may venture indeed into 5 to 6 Fa. but no nearer. S. of thofe Flats you'll fee an Ifland with a white Sand-Bank very hoal, running out a L. from the Main. There is not above 2 Fa. upon that Bank, theretore come not wirhin 5 Fa, of it; then go away W.N.W. to get above the Riff which thoots off from the Illand: being palt it, you have Cape Lopez in fight, bearing W.S.W. from you, according as you lic off.

Cape Lope $\approx$ is to low and flat, that the Trees feem to ftand in the Water; but 'tis frec from Shoals and Riffs, and you may come as near it as you picale, for 'ris flecp too. When you come near, and would go to the Road, run s.E. as high as you can. There is a very high Trec at the Crcek, which as you come from the Cape fhews higher than all the reft; but in com.

## Sailing Direitions for the Somtl,

ing from the E. you don't fee it at all. Here you machor in $s$ to 10 Fa and your fimall Bower carry'd to faward will lie in 12 Fa. From Maty to Oilaber exclufine you ned not moor, for the Wind blows always 5 .

The place of Trade here is calldd Papas Cafies: To go from the Cape thither, they run to the Shoal or B.unk, which trends to feaward off from the watcring. place; it is a Bank of white Sand, having not above; to \& Foot Water on it, and ftecp too; 'tis to be feen at a ditance, and it runs fartice out to icaward, for it decpens to 7 or $\times$ Foot at halt a L and not to above 2 Fa. at 3 L.s : the fhoalch place is when the Watering-place bears S.S.E. from you.

There is a sand bank in the Fair /F'd, as you come from the northward: 'tis tio thoul, that you can not go over it, nor is it bon feen. for tis to fteep that but one L from the Cape N. youll have ;o Fa at one calt, and at the nexe be fatt a ground: The fure way to avoid ir, is to kecep the Cape aboard, and then you are lite. When you are cafterly from it, betwen it and the Man, with a little Ifland on your Starbeardfide, thea you may rum into the Bight of Olebatto: Going in there, kecp on E. by S. till you are alfo palt the Watemy. phase Sased, then kecp on to the high Trecs, and there you miny come to anchor with Satety.
S. wetherly from Cape Lopez in Lat. 1. 15. S. lics the Ifland Ahiraboul. Thote who fail for Einrope from the Cape of Ciond pe, gencrally make this tland, ii has fome fimall Iflands lying nofe together on the S. fide of it, and the Road is on theN. Fide, hasing 6 to 7 Fa good Ground N.E. 1 L. from the Illand lics a large Clifi or Rock, and half way to it another lets, and even with the Water ; you mult run between this laft and the Illand; but if you turn to feawad towards the great Rock, you may very well tail thro'w wh the Wind at E. in 7 Fa as far as a Village on the N. fide of the Illand, where you may ride in is ta. E.N.E. frem you, dilt , LL, and about Musket-flot from the Shore, lies another Chif or Rock, which you mutt avoid; but ou the N.E. fide of the Bay 'tis all clar: there are fome Houtes on or near the Clift, where is good watering
From Caph Lopeas. 10 L.s lic the Bights of St. Mexios, Where is sood anch I ill 18 Fa and thence to Cape St. Cintherace is SE. by S. Ls. Berween both lie the Rivers of farmandar and Cainona, and good anchoring in cither of them ia 10 Fa .

There is a great Tuft of Trecs upon the Point of Cope St. Cutherene; but the Land within is low, and allo cover'd with Trecs. To the N. the Coaft trends S . and N . but more fouth. crly it treads S.E. and N.W to the River Sefte.

The River Seffe is to cliffy, to full of Rocks and foul Ground, epecially the N. P'oint of it, that you mult not come Parce than, to 10 Fa. From the S. Point the Coaft goes away duc S , a l .s to Cidpe Alajuaba; tome of it bears a litele minard. and there are lome high Hills with tall Trecs on themlike Dines, and fome Buthes; other high Grounds look as
they a to the off to Foot at from t Point.

To to $1 ;$ then it where Riff, E.S.E. you ; The S Iroo the $1 n$ fouthw and $M$ dian 1 rcachir brcakis

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To go from hich trends of white 1 ftecp too ; to icaward. above = Fa. place bears
come from wer it, nor n the Cape t be faft a ape aboard, on it, bc-- Starbcard$:$ Going in c Watcringthere you
s the In.and 'af'e of Ciood Iflands lying the N. fide, ac Iflandlics ds, and even I the Mland; : you may as a Village c in 15 Fa . from the nuft avoid; re are fome g. St. Mexios, "upe St. C'ac Rivers of her of them
of Cape $S_{t}$. over'd with more fouth.
and foul it not come oaft gocs acars álittle 1 Trecs on inds look as
they are flat on the top, and that to the $\mathbf{N}$. is the hered. Then to the S. Pome the Land talls again, and there a great Riff runs off to tcaward, which is dry at low Water, for it has but 6 Foot at high Water. The Land here forms a great Bay, quite from the faid two Hills called the Womens Breafts to the S. Point.

To ride at Loamso, you muft go to feaward till yout come into $I_{5}$ and ${ }_{14}$ Fa. till the great Catlle lics S.E. by F. from you; then ftand in again to the Shore, till you come into + and ${ }_{5} \mathrm{Fa}$. where gou will have good Ground. When youare wethin the Riff, kecp a Village called lime, which lies on the high Land, E.S.E. from you, and the S. Point S.W. toutherly allo from you; and then you will be in 3 to + Fa good Ground. N. B. The Sea runs very high and hoilow on all this Coalt.

From the high Pome of Loango there is a great Riff called the Indran Bar, which runs W.N.W. 2 $\frac{1}{2}$ to leaward: and fouthward from it SL.s runs the River Cacongo, betweenLoauso and Moleomba; and at the Entrance of it calterly fom the $\dot{\text { iz }}$ dian lian, dift. 6 Is, are t Ilands which look like a Riff; reaching along the Coatt about 1 I. from the Shore: the Sca breaking upon thote llands makes a horrible noile.

To the fouthward of the Rwer you fee the high Momeaing of calcais flopug to teaward: The Land is low, but the Cont is danacroms, and you mall not come nearer than 10 Fa. All the way from Cape Lopez to this phace, you come with great Difficulty, turning fometimes againtt the Wind, fometimes aganft the Strcams and Currents, and fometimes forcd to anchor becaule of both being aganft you together. In the Night you anchor, and in the Niorning ftand off to Scatillnear Noon, cipecially if the Wind is S. and S.E., and even when 'tis ftill you mult do the tame, tho you thotid be in so Fa. except you will lote Ground: But if you lote Ground, you mutt cometo an Anchor; for if ehe Weather be ftill and you canowt hold a Head, you will find it very hard to pats the Mouth of the great River Caconso or Coconso, for the Stram rums witha terrible lorce, and moft part of the year thoots towards the N'E. and N.N.E. tho in Summer, if the Wind blows S or S.S W. the Current of the River will vary, and run S.W. but in both Calcs you muft $k e c p$ off as before.

TheScabears with greater Fury upon this Coall from Mach to Siptember, than it does all the rett of the year: jou matt therefore keep farther off to Sea at that tume.

The next River is calld the Cabindt, or by fome T)uss Muntes, which comes into the Sea S.S.E. callerly from the Conco, difteg to 10 Ls. The Coalt is tandy and thony, and full of Palm-Trees : you may rum along in of to Fa the I and plain and bare. On the N. fide of the Cabinda lies the Town of Lemba, and on the S. fide C.abinda. The Land makes a large Bay : as you go in, keppa Gun-flot from the Point, and run northerly about it; and when the Pome bears S.W. from you, anchor then in 5 Fa. over-aganlt a great Tree which itands near the Sea fide. If you keep the Pomt 5 and $s l l$.

Houtes or or near the Clifi, where is good watering
From Cupe Lope $\approx$ S. so Ls lic the Bights of St. Mevios, where is good anchormg in is Fa. and thence to Cape St. Cittherinc is SE E by S. 10 l.s. Benween both lie the Rivers of rionamdars and Cimom, and good auchoring in cither of them in 10 Fa .

There is a great Tuft of Trees upon the Point of Cape St. Catherme; but the Land within is low, and alfo coverd with Trecs. To the N. the Coalt trends S. and N. but more fouthcely it trends S.E. and N.W. to the River Softe.

The River Sejte is to cliffy, to full of Rocks and foul Ground, clpecially the N. Point of it, that you mult not come nearer thang to 10 Fa . From the S . Point the Coaft gocs aWay due S. í las to Cafe Shamaba; fome of it bears a little invard, and there are lome high Hills with tall Trecs on them like lines, and lome Buthes; other high Grounds look as If they were plow'd, with white Spots like Chalk upon them. The shore s to rocky that you mult come no nearer than 12 Fa. Youmay fith all along this Coaft to Cape Majumbi, but you will find a fony Rifl tonding to feaward from the Point of the Cape.

The Couft trends next E.S.E. and W.N W. from Cape Mujumba to Alvara Ma;tas Bay, the N. and S. Points of which make a very fine fair landy Strand. There lie two Villages on the S. fide of it, by which you may anchor in 3 to 6 Fa . good Ground.

From hence to Cape Sellatis the Coaft trends S. and N. 10 to ${ }_{11}$ Ls, the Shore very high, with feveral white Hills. The Shore is iteep too, to that you may ride in 10 Fa clole under the Land, and very good Gromed: To the fouthward and near the shore. there is a lmall Mand, which mult be a oidcd, becaute the Ground is foul. About $=\frac{1}{2}$ Ls more foutherly Ines the Ruif of Scthace, W. by S. from the Main dift. 3 Ls. This Riff has abundance of Rocks and Cliffs, and the Sea breaks on them with great Violence and Noifc.

From the Cape touthward the Coaft is iow anderen, only fome littic Hulls near 3 lack /ahamba. Thence for about 4 Ls it appears like Sand-hills, alldwable, and tome Palm-Trecs teatere'd about here and there : the Strand looks reddifh, but is chicfly Stone and Sand. Come no nearer than y Fa, ouzy Ground, the thoalor the worde; 'tis allo the lime to the little Hills called $/$ 'o 0 tatas lirenfes, and the S. Point of the Rio Moutes; they look hike mands, but are not to as you pals by them: Come no nearer than 2 Fa tho your Veffel be hall, for there runs off a vory flony Riff from it about by the fouthward, and the Strand is alfo dangerous. You have the Land cren and bare from the River to the S. for 2 Ls, to a high Point lloping from fewards, with red ftcep Land hanging over, and fmall round Hills at the Top. From this Point S. 'tis all even Land, pretty high, till you come to Loango, which appears as a high Cape welh a grat Row of Palm. Trecs upon it.

Farther within the Land is the Village $A$ wary; and fouth. nard from that you will ice two Box-Trees call'd the Caflles;
tcring.
of lit. Mexies, to Capic St. Ciac the Rivers of cither of them
int of Cupe $S_{t}$. lo coverd with sut more fouth.
locks and foul mult not come c Coaft goes ait bears a little tall Trecs on iromads look as alk upon them. nearer than 12 Majumbia, but jom the Point
"Cape Mujumints of which Wo Villages on in 3 to 6 la .

5 . and N .10 to Hills. The Fa. clote under outhward and nult be asoidnore foutherly lain dift. , L.s. ; and the Sca c. ven, only fome 4 Ls it appcars cattcr'd about chicfly Stonc und, the fhoalills called //'oes; they look m : Come no hare runs off a vard, and the cren and bare of floping from ad finall round a Land, pretty as a high Cape
$y$; and fouth . d the Ciafles;

NE. and N.N. Li, tho in Summer, it the W'and blows $S$ or S.S W. the Current of the River will varg, and run S.W. but in both Cales you mult kec off as before.

The Sea beats with greater Fury upon this Coall from Marth to September, than it does all the rett of the year; you mult therefore $k e$ p father off to Sea at that tume.

The wext River is calld the Cabindt, or by fome T) mas Monters, which comes into the Sea S.S.E. calterly from the Conso, dill. 9 to 10 Ls. The Coalt is landy and thony, and full oi Palm-Trees : you may run along, in o to Fan the Land plain and bare. On the $\mathbf{N}$. fide of the Catbita lics the Town of Lember, and on the S. fide Cablimald. The Land makes a large Bay : as you go in, kecpa Gum- hoot from the Point, and run northerly about it; and when the Pome bears S.W. from you, anchor then in 5 Fa. over-agant a great Tree which thands near the Sca-fide. If you keep the l'ont S. and S.W'. from you, youmay anchor in 5 to 6 ta. ouzy Ground; bur kecp off from the N. Point, which is very toul, for a Bum itive off northerly.

The Land is ftecp and broken, like the Ruins of old Callies, all the way fouthwatd from the River lonor Montis: it has alto agreat many Hummocks upon it, coverd with Palm. Trees: alfo there is a Foreft or Wood, which thews regular hide a lortificarion.

You mult not come nearer this Coaft than is to 20 Fa for 'tis full of Rocks under Water in is Fa. an 1 under thore there is a great Shoal runs off, which has not above o Foot Water at high Tide: allo the Sea runs very high here, cppecially with a Spring Tide. From hence foutherly the Coaft lies low and broken, except the Mountain of Ciafiais, and the Shore is very flony for 10 Fa .

Beyond the faid Mountain the Land feens to be all drownd, and abundance of Water continually running out of it; and fomerimes 'ris all under Water, occafion'd by the Firefhes, Which run with fuch a rapid Current, that fometimes they bring with them huge pieces of folid land, which like noating Illands drive into the Sca with Atrange Fury. This is the great River Congo, to fam'd in the World, and which is to great, that as it cnters the Sca in two Branches, the fouthernolt is called the South Sca, and the northermolt Zair or Sain; and from hence fome call the whole River the River $\not Z_{a} i \dot{\prime}$, but that is by miflake.

This great River emptics it felf into the Sea at a Mouth of above 30 Ls broad, and with fuch great Force, and to prodigious a Quantity of Water, that the Frefh coming down W.N if and W. by N. tinges the Water of the Sca for above 12 L.s; and ceren when you are out of fight of Land, you know where it is by the Water bsing black and foul, full of Recds and other Trafh floating together, wheh the Force of the Stram pouring down fuch high Rocks, tears out of the Commtry, and hurrics into the Ocean; fo that without a Itiff G.le of Wind you can fearce lail crofs it, the Stream being vielent againft you for above 15 l.s

## Sailing Directions for the Soutbern

Yet you my at certain times fail into this mighty River under the northern thore, when its Mouth is much narrower, and may anchor at Aalmivino; but the Ground is fo muddy; that your Anchor will hardly hold. Coming into 3 and 4 Fa . you will be in danger of lofing Ground by the Current; but atter about half a L, you mult fhoot crofs the River, and then you will come into to and 12 Fa. on the other fide. In this Courle you are oblig'd to keep clofe to the Shore of the Point, otherwite 'twould be impofible to get into the River, much lels to lail up the Chanuel ; for the Strcam is fo furious, you could never flem the Force of it, nor, for the fame reafon, can you go above 6 to 7 Ls up the River at all.

The S. Point of the Branch called the Zair, is called Point 'I'adroz: Thic Coaft is mountainous, and great fteep Hillsappeatus like the Sail of a Ship; if trends S.E. by E. to the Gircuib Coult on the N. fide of Poizt 'spalmar.

Point Palmar is low Land, and to the N. of it you have a great Bay, wherc you may anchor in 5 to 6 Fa . good Ground; and ucar it is a Bay called La Finta: To go into which you muft keep a Gun-thot from the Point, then you will fee a large Trec on the Sca-fide, which is your Mark to run into the Bay.

On the N . fide of 'Point Paimar you may ride in muddy Ground W. and W. by S. round the Point there is a great Stonc Riff. Here ftamd on your Guard againft the Negrocs, as well as dgainft the Rocks, equally dangerous and fatal.

If you are bound to the S. kecp not too far off to Sea, left you meet with a Current, which is very ftrong in the Offing, and fets to the northward; you may cafily know it by obterving thote red lat Hills called Barricer a Vermillas, there you are reght againlt it. Then run in towards the Shore in io Fa. and kecp along by it right S. for 8 Ls. You may anchor any Where upon thi Coaft in 10 Fa. clean Ground, and the Land in view: When you are paft the S. Point, the Land falls S.E. by E. into the Bay of Finta, and to to the River Ambrise.

This River Ambrific has a very flat low Land on the S. fide, and the Sca braks violently on the Point of the Land: you may come as near the Coaft at 8 Fa. but not nearer. On the Land you lec a clofe green Foreft Country, but not many great Trecs.

Abour a $L$ to the $S$. of this River lies a rocky Point, which the Breakings of the Sea make a prodigious Noife upon; and 4 L.s to the S. of that is a Hill called Bamba, which looks like an Illand. About a L. S.S.E. from the Hill you have a hard Sand and good Anchoring.
Farther S. you lee Marbamba, and fill more foutherly the feven Hills lying clofe together like Iflands near the Sea-fide; and at the fouthermont end of them the Rive: 'Tanda falls into the Sca with a very flarp Stream. The S. Point of the River is very high, and fallstleep like a Tail: you have good Riding all aho hare in 12 and is Fa. fott Ground.

From the S. Point of the $/ /$ aind $h$ to the River Beigro is about 8 L.s S. E. the Land low, and the Shore ftecp; and to the S.S.W. from the 'Danda is St. Panl's Illazid: A S. by W. Wind carries you thither, if it docs not over-blow; but if it does, you
ver Loan half a $L$ Ship 201 veral Col or 5 Lsat From the Mer Joy : 'Ti it the Coa green and From $h$ Sand: $A_{1}$ out fcar $\%$

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PalmTric
5 Ls fartl this Bay thence is then the come to cept onc you have Beasucla the Shoal Trecs; Mouth Ground. S.E. by S tween w has a Fla Bay: TI fandy Sh

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oo is about he S.S.W. Wind cardocs, you
ver Loanzo, betwcen Cape Saméras and Capi Ledo; 'tis about half a L over at the Mouth, and you may run with a good Ship 20 Ls up the River. The Water of this River is of teveral Colours, and the Strcam to fiwift, that it is perceived 4 or $s$ Lsat Sca.

From Loanzo Bay S. lies Cape Ledo, calld by the Scamen the Mcrry 'Point, Ledo in the 'Portugue fe fignitying Mirth or Joy: 'Tis low, and runsfar our into the Sca. On the N. of it the Coant is full of Hills, and fleep for + l.s ; on the $S$. 'tis green and finooth.

From hence to Cape Negro 'tis all a hilly Coaft and white Sand: And the Coalt is to fair, that you may run along without fear within a L of the Shorc.

There is a great Bay 5 Ls to the S. of Cape Ledo, call'd PalmTrac Bay, the Shore cover'd with Trecs: And about 5 Ls farther S . is another Bay, near which is Cape Yalm: In this Bay you may ride without fear all Weathers. From thence is Cape brafo, near which are fome black Hills; and then the Coalt is all cqual agam, with Trecs upon it, till you come to the Bay of Bengucth, where the Land is all low, except onc Hill falling ftcep to the Sca-fide. Thwart of this Bay you have not above 6 Fa and half, but as you dial by Cape Berugucla, you have 17 to is Fa.muddy Ground; and ncar the Shoals the Cape is low, even with the Water, and full of Trecs; to the fouthward of which lics Hens Bay, and the Mourth of the Rivcr Touge, where is 20 to 25 Fa. muddy Ground. From Cape Ridupucha to foat Benguela is 5 Ls
 tween which and the N. Point of another Bay, is a Bay which has a Flat in the middle of it, and therefore calld the Flat Bay: The other Bay is large, and has at the S.E fide of it a fandy Shore with good Ground, but no frelh Water.

Hrom Point Benguela S. io Ls lics Sombrero, thaped like a three corner'd Cap, with a River running into the Sca S. by it, and a Sale Pond: Thence 5 Ls S.W. lies Praint Francefo, and a finc Bay S. of the Point, with two Rivers running into it. In this Bay allo is a finall Port, call'd St. Francifoo, where you may run in with tinall Veffels; 'rwas formerly $S^{\prime}$ animif, but 'tis now Portugucfe.

From hence you go S.W. by W. to the Thee Frwars, a broad Point on the Coaft, dift. $i_{3}$ Ls. Between both is the Sivedes Look-out, writ a finall Bay to the W. Where is ${ }^{\text {a }}$ to 12 Fa. good Ground; and another larger Bay a litele to the W. call'd Claymuls, fomewhat narrow at the Entrance, but very large within, and has to to 20 Fa in the Entrance: Then the Land bears W.S.W. to the Tbree Fryars, as above; and from thence S.by W. to Sheeps Bay, from the S. Point of which lics a little Riff trending off to teaward.
S. from Shecps Bay $=0$ Ls, is Typers Bay, where is good Ground. 'Point St. Nicholas lies between thefe two Bays, from whence a great Riff full of Rocks and Cliffs thoots ont to feaward: And from Tyscrs Bay to Monut Negro the Courle is S.W.by S. 20 Ls; and the Old Man, a very high Mountain, lics in the midway.

Th! bame as fisar the Coalt at 8 Fa hat not nearer. On the land you lec a chofegreen Foretl Country, but not many great Ares:

Aborta I. to the S. of this River lies a rocky Point, which the lireakings on the Sca make a prodigious Noife upon; and 4 Is to the S. of that is a Hill called Ramba, which looks like an Illand About a L. S.S.E. from the Hill you have a hardSaud amidgood Anchoring.

Wreher S. you iee Marbamba, and fill more foutherly the Feven Hills lying elote together like Iflands near the Sea fide; and at the fonthermont cad of them the River 'Tanda falls into the Sea with a very tharp Stream. 'The S. Point of the River is very hegh, and tallstleep like a liail: you have good Riding all hh: hore in 12 and is Fa. folt Gromad.

Fromblacs. Point of the '/ had he to the River Bearo is about S.s.S.L. the Land low, and the Shore ftecp; and to the S.S.W. from the Mandi is St. 'raul's Iflemed: A S. by W. Wind carrics yon thu her, if it docs not over-blow; but if it does, you mut rum mot the bay of Bemen, where youmay ride in 10 Fa . but ge no liether in, over night: The next Morning you have the Land Brece which will carry you to the Iland of Loanso, on S': \%'at's ! flemel: If it be night when you run into the Bay, anl you are a Stranger, keep founding on the S. Shore: You may ltand in on that fide as near as you will, 'ris a dafe fandy Bay, and good Ground. The lland is fair betore you, and Youcmuot mils it, tho tis low, and youmay not fee it at firft. When you are near enough to fee St. Path's Ifland, you will alk Ice lifiomets. which is only tour low Trecs upon the Hhand: at fuft ;on will fee only threc, but from the Top-muth-hend you may fee the other; allo you may tee all over the lhand, and the Sea between it and the Main, and into the Roxd, which being clote mader the lland runs in between it and the Nan. If yougo in there, you may come to an anchor withm a Stone's calt of the Land. Carrying your Cable on shore all is hate, and you have is Fa. Water: But cberve, that if younanchor at the NE. Point, youmult bring one An-- hor a-hore and another thwart to leaward, and chen you are well moord. On the man Land, over againtt this Ifland is a sery hoh Trec calld More Legaltas; and by the Sca-fide aner the laid Tree is the City loargo S'. I'anl on a rifing siromed. This fland is about 10 l.s in Icngeh, lying S.W. by W. and N.E. by E. with a Rifl salling offfrom the S.W. Point .bout $=$ I.s; the Chanel between that and the Main is calld Corwhb. If you are bound to the northward from this Point, boumult run into 3 or to F.a. then you are free from a Tail, which talls off from the Land, which otherwife may bring you u.
S. from St. Paul's you fec Point Patherima, being low Land with fome dead Trecs without Boughs upon them ; and doutherly from thence lics the Bay Lounzo, which you will know by a clole Wood of Trecs that lies againft the middle of it, and iwo round Hunmocks northerly; and there you may anchor in 6 to 7 Fa good Gromd. Into this Bay folls ari-
it. Intil you m.yy but 'tis ind

From broad Poi Suedes I Fi. good call'd Cila large witi Land bear thence $S$. a little Ri S. from Gromad. from whe feaward: S.W. by S lics in th From $A$ S.W. Th too, that high tandy A little $S$. like an In ing join'd The Itlan Moon ; al the $N$. fid be taken c. a Riff wh re:ches lou lounding c After yo
S. Lat. th you may Land forms mocks ; an 'tis all high 10 Ls; an Fa. within

All the findy, but Hills or H the N. fids

Near tho The Coaft L. of the 'Praga Ni Shore fair, within 21

From the Lat. a tair half of tho

Ont the y great
which ; and 4 ks like rdSand
crly the ca.fide alls into ic River 1 Riding
is about e S.S.W. ind carcs, you 110 Fa . ou have Lomuso, the Bay, c: You fe fandy on, and $t$ at firft. you will on the ı Topall over into the ween it an anr Cable blerve, pic An--ou are nd is a Sca-fide a rifing W. by

Point $s$ call'd Point, a Tail, bring
it. In this Bay alto is a timall Port, calld S't. Francifio, where you may run in with tinall Veffels ; 'twas formerly $S_{\text {pandilh, }}$ but 'tis now Portughich.
From hence you go S.W. by W. to the Tbree Frwars, a broad Point on the Coaft, dift. $1 ;$ Ls. Betwecn both is the Sewedes Look-out, with a finall Bay to the W. Where is st to is Fi., good Ground ; and another larger Bay a little to the W. calld Claymuls, fomewhat narrow ar the Entrance, but very large within, and has to to 20 Fa in the Entrance: Then the Land bears W.S.W. to the Three Fryars, as above ; and from thence S.by W. to Sheeps Bay, from the S. Point of which lics a little Riff trending off to feaward.
S. from Sheeps Ray $=0 \mathrm{Ls}$, is Typers Bay, where is good Ground. \%oint St. Nichols lies between thele two Bays. from whence a great Riff full of Rocks and Cliffs thoots out to feavard: And from Ty;ers Bay to Monnt Negro the Courle is S.W.by S. 20 Ls; and the Old Man, a very high Mountain, lics in the midway.

From Mount Negro to Cape Negro, or the Bleck Point, is S.W. The Coalt lics moft duc $\mathbf{N}$. and S. being fo ftcep too, that you may fail along clofe by the Shore; the Land high fandy Hills, and the Strand a white S.and all the way: A lietle S. from the Cape lies a low Sand Bank, which looks like an Illand, and is calld Tygers Iflend ; but the middle being join'd to the Main, makes a Bay, where is a good Road. The Illand is about 6 I.s long, the imer fide broad like a half Moon ; and there are feveral woodea Croffes on the Point of the $\mathbf{N}$. fide. If you go into this Bay, there are fome Flats to be taken care of; but in the S. Bay it is deep, Water. There is a Riff which lies off from the S. Part of the Ifland, and re:ches foutherly almolt round it, which you munf find our by founding carcfully.

After you are patt Cape Negro, till you come to 20 Degrecs S. Lat. the Coalt is very fair; and if you come from the $S$. you may tail all along within a $L$. of the Shore. Here the Land forms a great Bay to Cape Ruy Picrez, with fome Hummocks; and from the Cape towards the Gulph Trio fouthward, 'tis all high, and a fair landy Shore, trending S.E. by S. 9 to to Ls; and you have fo bolda Shore, that you have $1 ;$ to $I_{4}$ Fa. withina $L$. of the Land.

All the way to the Gulph of Frio the Shore is plain and fandy, but to the northward 'tis high, and there are three Hills or Hummocks, the midnoft is the biggelt: And from the N . fide of them their tends a fony loine ofl to fanmend.

Near the Gulph of Trio the Land trends S.S.E. and N.N.W The Coaft is low, yet flecp, to that you have jo F.1. within a L. of the Shore, foft onzy Ground. The nest Point is Praga Niowes; the Coant is S.SE cafterly, dift. 6 I.s, the Shore fair, full of Trecs and little Sandhills, 16 to is lit. within 2 Ls and half of the Shore.

From thence fouthward theCoalt rums S S E t till pall zo dey. Lat. a fier Serand, and ftecp too, havias $1+$ Fon within a $L$ and half of the Shore, bhack imdy Ground.

## Sailing Direations for the Eaflein

Near this is the onen Haten of St. Ambrofe: Fiom thence to Cape Jema is alt a fur bold Shore, cren Land, with white Sand hills. In taihag northerly here, geat care mutt be taken ot the foutheard fide of Cape Surita; for hard by a place calld Fations, hes a very bad flat Shoal near the Shore; and a litte more ioutherly near Citpe Rofiria a worte runs fir off to feamard, to that you mult not come too near the Land, till you get morthwand as high as zo deg. S. Lat, and then you may man way N to Cofe Negro, as abore, where the Coafl is fair, tho it docs not feem to ; and ricu youmay run along within a L. of the Shore.

But if you are failine to Ahsola, and take this Courfe in 17 to $1:$ des. S. Lat. then beware of the Slooal calld Antonio lio vill, which hes so to so Ls from the Shore, dat $W$. from Cope Nicro. This Shoal is very dangcrous, theres but one Rock calid the Mows (lify to be teen upon it above Wa$\therefore r$; but there are abondance muder it, and tis to excecding Aecp, that youmay be a-ground upon it on a fudden; but you have the help, that m the nght you will know it by the loud Nome of the Sea, whech you will hear a $L$ off: and in the day you will lec the madisious breaking of the Water

Ois this Coaft in a fouittland called Secor, which trends off roka ard trom Capel itas; and the Bay of St. Mchata is at dic N.W. Pont very cliffy.

The Bay ot Solithatics to the fouthward of this Inland, havins a sery far Rosd; and to the louthward, about $=$ Ls and
 about a L. in length, the Shore very clify and tonl on the W. fide, but fargood Ground on the E. Youmanehor abour Gen-thot from the Shore in 16 Fa good Ground and white Sand.

Rubrey Iflund, or as tome call it Corucia, lies 6 l.s S. from $E / i=$ abeto's $/ / / 4$ and in compas a Ls, and the Land tomeWhag higher than Clazabeth's flad. Hali a $L$ from it hies a great Stone, which the Water breaks furioully upon.

Tho !humanfits to make the famous Table Bay, and lics is the Nouth of it. Here a larege Flect of Ships may ade buill lutery, land-lockd from all storms and Whads except a
N. W. (iroum

And appe:urs of Lan veral particul thills. the $L$ :

The flat on Shore ic From t Clitf, be that 'tis tis foc not be ward no

Ther it is $\mathrm{l} i \mathrm{i}$ Riser in hot 1

In the have co out of t thele 1 of the V. par than the

Eaft beknow two or: call'd to Land 0 A litt Cattle t N.E. an buatio

# Suiliag Diretions for the Eaftern Coafts of Afric Cape Guarda Fue, or Guarda Foy, at t 

 H E Cape of Cood Hope is in the Lat. of 34 S. If Ln $h_{1}$ you purpole not to ancli, re at the Cape, but proceed to India, and clpecially if you come from the Coaft of the Bretits, your beft Courfe is to give the Cape a good Birth, at laft of $=0$, or if you pleafe 30 Ls; you will ilid the Scas lets turbulent, and the Air more moderate than nearer the Land, where the Wand from the Mountams comes in $\mathrm{i}_{\mathrm{i}}$ its and Tomadocs very frequent.

Hiviag pait the Cape in that Latinude, and being bound for Padac or for Mache, and fo defignins to pals between Mada-- Cier and the Coaft of slficie, call'd there Sieffelo, you mult

## or the Eaflein Coaffs of Africa.

mon thance with whits It be caken by a Place ore ; and a far off to ud, till you you may oall is tair, g within a
urfic in 17 mtoniol $1 \%$ e W. from 's but one bove Waexcceding ; but you $y$ the lond and in the
trands off chun is at
inland, ha$t=L s$ and izs. If in wh, on the W. chor about and white
cs $\quad$ Les. -and fomeom it lies a
$y$, and lics may : tide is cxicepta
N.W. having 3 to 4 Fan under the Shore, andicy gecd (iround.

And here you are in fighe of the Cape of Good liope, which appears trom this lide like a hanging lland, with a mall Nock of Land joming it to the Main betwecn two Bays: It has feveral wery high Moumtains upon and near it, whercof two are particulaly remarkable, mancly the Table and the Lion Monntrins. from this laft the S.W. Point of Tabli Bay is calld the Lion's Tail, becanfe it flopes away from the Mountain.
The Twold Monmain has its Name from its Shape, whel is flat on the Top like a Table, and lies abour the Point, within Shore fouthward, between two Rivers, one frellh, the orher falt. From the Bank of the latt they climb up this Mountain by a Clitf, being inacceffible any other way: Its height is fo grat. that' tis Icen 10 L.s at Scaa; but at the approach of bad Weather tis fo coverd with Clouds and Milts, that the Top of it cannot be feen at all: At other times it may be feen to the weft ward near ${ }^{\text {j }}$ I.s at Sca.

There is another Hill near this calld the W"ind-bill, becaufe it is faid always to blow sery hard there. Above the Salt Reter for ors, lies a great flat or Sand, whecoon fomerinacs in hot Weather there win he hard Salt $=$ or 3 laches derp.
In the Months of Oct, ber, Nuember: and Tecomber, they have cold Scafons here, and iinnetimes great Storms of Wind out of the $S$. and tome Years it contmucs to till April: At thete Times the Smans very hollow upon the Point, and off of the Cape. There are Eeveral good Bays and Creeks in this V. part of the Conft, and very :od Havens, much better than the widdRoad of the Cape.

Eaftward of the Cape 7 Ls appears Cent: Folfo, which may be known by thee high Hillis near one another, of wheh the two ot:moft are the higheft. Next to that is the Netede l'onent, calld to becaule of its that pucts: Andthis is the fouthermof Land of afficto.

A little tarther E. is Flegl $P$ iny calld io from the abundance of Cattle to be had there: And from thence the Coalt bears alway N.E. and then due N. towards the Scas of Suffiato and MEamiobegith, being the calern Coalt of Africio, of which in its place.

## roafts of Africa, from the Cape of Good Hope to arda Foy, at the Entrinace into the Red Sea.

$34: S$ If ut proceed athe Coant the Cape a ; you will derate than :ains comes
bound for con Mada, you muth

In this Coniffe you lofe your Soundings; for tho you lave Sounduge in L.at. 37. yet in tuming up to fir W. you lote hem awa, for heresou are patt the Point of the great kifl of the Cape, which runs yo Ls to the eaftward of Cape Alyilhes, and where you have Ground; but ofl of Cape Falio you have no Ground, and hardly any along by the Cape it inff: and here it is the fame.

Youmay ftand in as near Cape $A$ unilíus as you plate, and fo uponali che Coalt withina 1 . of the Shore, from the Ciaper of (iond liope thither, but no diarther. In the Courle to the


Int Sound :uan, Cupe where no Gr here it
oumars tric seas of Jufith and $\sqrt{10 \text { a ami- }}$ sexiept a ligut, being the callem Coaft of Africa, of which in its place.
roafts of Africa, from the Cape of Good Hope to rda Foy, at the Entrance into the Red Sea.
$3+\cdots$ S. If at prosed a the Coaft :he Cape a ; you will lerate than wirs comes
bound for en Muda, you mult - Ihidia, as the Shoals
crtain kind e together, If than 20 hat if you epend you e llhand of fup to the you mect where you
re of your to Lat. 16
Bcing in tricilles, aot to be ateer away ards to the cthe furer
rgc Birth. foul, and o Sca.
re past the
de $A \mathrm{~g} \mathrm{hl} \mathrm{l}$
1 W.N.W.
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Africi,
ntinucs to
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almoft E .

Inthis Cumfe you lofe your Soundings; for tho you have Soundmgs in Lat. 37. yet in ruming up to far W. you lote them agan, for here you are palt the loint of the great Raff of the Cape, which ams to Ls to the caftwad of Cape Aluathes, and where you have ciround; but ofl of Cape Fit!í you have no Ground, and hardly any along by dhe Cape it iolf : and here it is the fame.
loumay ftand in as noar Cape Arnilus as you pleatic, and fo upon all the Coaft within a! of the Shore, from the Cap. of Good Hope thither, but no farther. In the Courfe to the inand of Madaga/car there is a Itrong Current Its S.W. or S.W. by W. if you can get a large Wud, to as to go away 1. . or E. by N. you may avoid it at leaft; the farther you are from the Shore, the lels you will fed of this Current.

The bett way to make the Inand of Madagafior in this Run, is by ftecring N.E. till you come into Lat. 23 . to $24 \%$, then you are part the Sboals of India; having then made the W. Coaft of Mladusafiar, you will the better fet your Courde to St. Fo'sn de Nocia.
N. B3. At St. \%obn de Nria, riere is a firong Current in Lat. 1- which runs no lefon... . ls in 2 Hours, and holds it fouthward to Lat. ig.
Afrer you are palt St, \%obn de Now, haul away N. for Aiohilia or Mebilla; it is one of the lhands of Cuintro in lat. $1215 . S$. Duc N. from this lie the linands of Saction upon the Coaft of Arabia, and almoft in the Month of the Opennty to the Gulph of Mocha, or the Red Sea; they lic in Lat. $=$.te. N. fo that the Rua is no kefithan 24. d. bemg ratomiles. To goright with Salatra, you ought firil to make Cap, B affis on the Coaft of Aficu, Lat. \&. N. and $\because O$ on N. by E. with the Coaft to 8 d . N . then ftecr N.E. by N . for the Mland.

On the W. Coaft from St. Yobn di Noevater the Shore of 10 .
 N.W. by N. and if you would go into the what Mo ambicur, you muft pals the two little Ilhands of St. "a a and St. Giorge, which lic at the Entrance into the Gulph or Bay, leaving them on the Larboard fide, and keep in 6 to 7 Fa allo take great care of the Shoals of Cavelera, whin you may fee hy the Sea braking upon them; then you men have Pilets to carry you up to the Ithand and Fortrcls of Mosambian' it Celi.
A. $B$. Upon all this caftern Coalt of Aficia, about 5 Ls due N. from Cape Corraintes in Lat. 2+. S. os the Baras Formules in Lat. 16. 20 . being at laft 400 nitw, there lies a Shoal or Hat of Sand from the Shore: at firtt in abent 65 to 70 miles N . it is not above $\mathrm{z}^{2}$ to $\frac{1}{2}$ Ls broad; ar Cape St. Sébaftith. the Land falling baik, it widens; and at the Kiver St. Maria

## Sailing Directions for the IJland of

it is 8 Ls wide; thence it makes a kind of Bay, the outer Edge lying very even, tho the Land within is quite otherwite, fometimes running far out, fo that the Sand is not above 2 Ls wide, as at Bantgo, and 5 Ls , as at Rio Suffalo; and at other places falling back, fo as to make it 12 and 15 Ls wide, for ftill the outer Edge of the Riff or Bank is the fame. It begins to be thus broad at Rio de Mata, Rio Camala, and the Boccas de Cuana, or Mouths of the River Cuama, which is the greatcft River in all that part of the Country: here the Shoal is 15 to ${ }_{17}$ Ls broad, and continucs fo to the northermoft Opening of that River in Lat. 19 to $17 \frac{1}{2}$. There are indeed tome deep places in the Shoal, but then they are mere Pits or Lakes, tho tome of them are very large, being 3 to 5 Ls long, and 2 or 3 broad, there being no Channels to come to them by. There are allo fome Illands upon it, and a great many featter'd Rocks; but the Water being fhoal they are all feen. The Depth of Water varics upon this vaft Shoal very much; in tome places it is ${ }_{1} \mathrm{Fa}$. in fome not above 3 Foot, in others 2 to 4 Fa . and no where above 5 Fa . and that io uncertain, that all Navigation upon this whole Coaft is intercepted except for fmall Craft ; neither is there any Sound or Channel in the whole Sand for 380 miles, till you come to the Rio de Fugas at Quiliamo in Lat. 16. 50. Where there is a clear Channel thro' the Riff from the Mouth of the River, being 12 Ls; then the Riff begins again and goes on, as above, to the Barras Vermulas in Lat. 16.20

As the outer Edge of this Sand makes an even fivecp like a

Bay, fo the Depth is mu having 30 F for 300 mile From the and the Gre there are fey principal a linde in Lat

If you fail defign to pu for here are for a Pilot; Guns cach a if you are it Ports are ge

There are were much fore the $\mathcal{D} u t$ as the Inc of llands of Maurice, an Thefe inland ing planted their Coafts, but one Harl

## Sailing Directions for the 1/land of Madagafcar, or Iflands aljoining.

 HE Eaft, South, and North-wcft part of Mada gafcar are the particular Coafts, where the Navigation being moft practicable, the Europcans have traded and converted with the Natives, and by that means became acquainted with the Coaft.
The firft Place we ufually make, being bound from the Cape of Good Hope, is the Bay of St. Ausuffine: To make which keep in Lat. 24. 20. Ate ering from the Cape N.E. When you are in this height, go away E. directly for the Ifland: there you will find it bold and no danger; but farther N. the Shore is toul, and you muft be more cautious.

When you have made the Land, go away N. or N by E. with the Shore, till you fee a Poiut with a high fandy Hill on it, like the Table-bill at the Cape, and fome Trees by the Hill.
N. by E.from this Point dift. 13 Ls lic the Ifland and Shoal in the Mouth of the Bay of St. Auguffine: You may go boldly up to them, as above, kecping in 4 Fa. but no nearer, nor mull you anchor near them at all, for the Ground is full of Rocks of Coral, which will cut your Cables, and hold faft your Anchors, as bad as a Rock of Marble : Haul away theretore E. to the Chamel which leads in, and go up till you come to two Hills which open like the Entrance into Dartmoitt), and another high I.and which fhews like $W$. $/$ /minfler-
N.B. It are ve 5 a-clo You ride Shoalings, 1 the Coaft is Upon th their lies a F above on th run within places tơan is call'd the above 80 L places on th arc abundan the very on Fa. It ends

At the N the firt Pl River lies with goodS River, the lies low, an 14 to 16 Fa
outcr Bay, fo the Curve or Arch goes very litcle inward; and the
rwifc, e 2 Ls : other c, for begins Boccas great1 is 15 pening e deep s, tho 2 or 3 There ocks; pth of places and no gation Craft ; and for amo in ff from s again 16.20 like a

Depth is much the fame all the way, for it is bold and fteep, having 30 Fa. generally all the way, no where above 32 to 34 , for 300 miles of its length.

From the N. Point of this Riff or Shoal, the Land is clear, and the Ground good, to the Entrance into Mozambique: there are feveral very good Roads and Harbours alfo; but the principal are Mozambique in Lat. 15. Mornbas and Melinda in Lat. 5. 3.

If you fail upon this Coaft farther N . than Mozambigut, and defign to put into any of the Ports poffelt by the Poriuguefe, for here are no other, you muft lie by and fend in a Boat for a Pilor; or if the Sca gocs too high for your Boat, fire three Guns cach at 2 or 3 minutes diftance, and Pilots will come off: if you are in Diftreis, you mult run in at all hazards, but the Ports are generally bold, till you are within fome Shelter.

There are fome Iflands on the E. fide of Madagafcar, which were much uled for taking in Provifions and frefh Water, before the Dutch made a Scttlement at the Cape of Good Hope, fuch as the Inc of Bourbon, poffeft by the French, and the Inland or Illands of Mauritius by the 'Dutch, nam'd after their Prince Maurice, and by our Seamen corruptly called the Morufhoes: Thefe lllands, are now render'd almoft ufelets by the Dutch being planted at the Cape, and having no confiderable places on their Coafts, I need tay no more to them than this, that there is but one Harbour of note, and there you may have a $\mathcal{D} u t c h$ Pilot.

## Madagafcar, or St. Lawrence, and of the other lands adjoining.

Mada Navigacs have by that re Cape which en you : there hore is
by E . Hill on by the
fhoal in boldly cr, nor full of ld faft thereill you Dart ninfor-
N. B. It flows here E.by N. and W. by S. and the Tides are very regular: At Full and Change 'tis full Sca at 5 a-clock.
You ride here very eafy in 9 Fa. Clay Ground and good Shoalings, fo that you may lic as deep or as ihoal as you will; the Coalt is S.W. and N.E.

Upon the W. fide of the Illand, and N. from Coungoule, their lies a Flat or Bank all along the Shore, like that mention'd above on the African Coaft, tho nothing fo large; you may run within it almoft all the way, and there are many good places to anchor in, as well as to trade in. This Shoal or lilat is call'd the Baffas cle Procellus, and runs up N. and N. by E. above 80 Ls , but there is depth of Water fufficient in moft places on this Bank, ouly that at the S. end for 20 Ls , there are abundance of Rocks under Water, and fo ftece, that at the very outcr edge of this Bank there is no Ground at 200 Fa. It ends at Cape St. Andre:u.

At the N. cnd of this Bank begins the Trading Coaft again ; the firf Place from Cape St. Andrew is Balleg-bead: Bality River lies N.N.E. from the Head ditt. I L; the Coaft is clean, with good Soundings, from 12 to 5 Fa .When you are thwart the River, the Head bears N.W.by W. and S.E. by E. The Land lies low, and appears full of Trees; the Soundings different, 14. to 16 K. . Ls from the Land, but io to 12 at 6 Ls off:
means became acquainted with the Coaft.
The firft Place we ulually make, being bound from the Cape of Good Hope, is the Bay of St. Auguftine: To make which kecp in Lat. 24. 20. ftecring from the Cape N.E. When you are in this height, go away E. directly for the Inand; thicre you will find it bold and no danger; but farther $N$. the Shore is toul, and you muft be more cautious.

When you have made the Land, go away N. or N. by E. with the Shore, till you fee a Point with a high fandy Hill on it, like the Table-bill at the Cape, and fome Trees by the Hill.
N. by E. from this Point dift. ${ }_{1 j}$ Ls lie the Ifland and Shoal in the Mouth of the Bay of St. Auguftine: You may go boldly up to them, as above, kecping in 4 Fa. but no nearer, nor mult you anchor near them at all, for the Ground is full of Rocks of Coral, which will cut your Cables, and hold faft your Anchors, as bad as a Rock of Marble : Haul away therefore E. to the Channel which Icads in, and go up till you come to two Hills which open like the Entrance into Dartmoutl), and another high Land which thews like WiftminfterHall; there you will have foft ouzy Ground, and from 12 to $z=$ Fa. clofe to the Shore; this is the Road of St. Auguffine, it lics 5 Ls without the Illands at lcalt, and in Lat. $23^{\frac{1}{2}} \mathrm{~S}$. juft under the Tropick.

The fouthermoft Point of the Ifland is call'd Cape St. Scboffiun, in Lat. 26. 15. Herc is good riding in feveral places, and the European Ships commonly ute thole Roads for freth Provifions, when they go to India by the S. of the Inland.

There are allo feveral fecure Roads as well on the W. as E. ficic of the Illand, between this Cape and St. Auguftine on one fide, and between it and 'Port 'Dauphint' on the other, and a bold Shore all the way to both.
N. of St. Auguftine dift. s Ls, lics the Bay of Tullea; there is a good Commerce with the Natives, but 'tis bad wooding or waterme, the River being too thoal even for a Ship's Long. boat: The Road is good, but you mult anchor within the Brakers. Thele are a l.cdge of Rocks which lic off from the Shore at about a L dittance: The Paflage is good between them all the way from the Bay of St. Aupaftinc. Bring the Table-bill, or that calld $/ W_{\text {ithe }}$ infer-hall, to bear S.E. from you, then you are tair with the Paflage, and may go in S E. You have every where Water cnough, and may anchor within in 12 to ${ }_{14} \mathrm{Fa}$. or you may ride in the Mouth of the Paffage 2 Miles in: If you want frell Water, you mult fend back to St. Auguftine tor it.
N. from Tulled Bay you have no Place of Trade, or any Road or Port, till you come to Konngoule, or Mandeota, and the Terra del Gada; 'tis a very good Port, there is no confiderable River, but there is an lulet or Sound, with a Bar, on which is but 2 or 3 Foot at low Water, but 14 or 15 at high Water; fo that your Boats may go in for Wood and Water, and there is an excellent Road for great Ships in the Bay; but you mult dig Wells for your Water, tho you need not dig above 3 or 4 Foot. their lies a above on run withi places to'a is call'd tl above 80 places on are abund the very Fa. It end

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Four 1 find a lar bearing 5.1 Illand lies it which a you will f you have poni, whe N.E. fr it the Ind and Hart 2 Ls wid was barr'd when you 3 Ls up tl There in there, 7 to 12 Fa there beir inner Hav Point of $t$ have 3 to

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the Cape : which hen you d; tisice Shore is

## N. by E .

 y Hill on s by the Shoal in oo boldly arcr, nor is full of hold faft ay theretill you to Dart-Aminftcrom 12 to 1uguffine, $\frac{1}{2}$ S. jufte St. Scal places, for frelh land.
W. as E . ue on one cr, and a
; there is ooding or 's Long. ithin the from the en them le-bill, or then you ave every to ${ }_{14} \mathrm{Fa}$. cs in: If Augufine
, or any ota, and 5 no cona Bar, on ; at high d Water,
he Bay ; d nor dig

Shoalings fo that you may lic as decp or as thoal as you will the Coaft is S.W. and N.E.

Upon the W. fide of the Illand, and N. from Coungoule, their lies a Flat or Bank all along the Shore, like that mention'd above on the African Coaft, tho nothing fo large; you may run within it almoft all the way, and there are many good places to anchor in, as well as to trade in. This Shoal or Fl lat is calld the Baffas de Procellas, and runs up N. and N. by E. above 80 LS , but there is depth of Water fufficient in moft places on this Bank, ouly that at the S. end for 20 Ls , there are abundance of Rocks under Water, and fo ftece, that at the very outcr edge of this Bank there is no Ground at 200 Fa. It ends at Cape St. Aldrev.

At the N . end of this Bank begins the Trading Coaft again; the firft Place from Cape St. Andrew is Balle-bead: Balley River lies N.N.E. from the Head dift. I L; the Coaft is clean, with good Soundings, from 12 to 5 Fa. When you are thwart the River, the Head bears N.W.by W. and S.E. by E. The Land lies low, and appears full of Trees; the Soundings different, ${ }^{14}$ to 16 Fa. 3 Ls from the Land, but 10 to 12 at 6 Ls off.
The next Head-land is Cape Table, the Courle E, by N. dift. 7 Ls: The Land rifes like two long Tables, and from thence has its Name; the northermoft is far the longeft, and is the moft ufeful Sca Mark upon all this Coait.
Four Ls and half off of this Shore, weftward, you will find a large Bank of Sand in 7 Fa. in Lat. 15. 40. the Table bearing S.E. by E. and the Ifland Maraponi S.E. half S. This Illand lies $I_{\frac{1}{2}}$ Mile from the Shore, and has fome Flats about it which are under Water ac high Tide, but dry ar low Water; you will fee them when you are but a Mile E. from it, where you have 9 to ii Fa. E. of the Ifland is the River Maraponi, where our Ships trade for Provifions and Sale.
N.E. from Maraponi is New Maffeleige, and clofe beyond it the Indraught of Manigaro, two very confiderable Rivers and Harbours, juft together; the Opening of Manigaro is 2 Ls wide, it thews by the rippling of the Water as if it was barr'd, but the Bar (if it is 10 ) has 6 to 7 Fa . upon it, and when you are over it, 8 to 12 Fa . and you have 7 to $8 \mathrm{Fa}_{3}$ 3 Ls up the River.
There are two Channels into Mafeleige; if you would go in there, keep to the Ifland Fanigainy, and there you hall have 7 to I $_{2}$ Fa. but between the Illand and the Main is no paffing, there being not above $3 \frac{1}{2}$ to 4 Foot Water. There is an inner Haven beyond the firft, you mult go clofe under the Point of the Inland, and borrow of Eaft Maren, there you have 3 to 4 Fa. upon the Point, and 7 to 9 Fa. afterward.

Maffeletge is an Illand lying E. and W. I Mile and haif in length; and at the E. Point is the Bay with 10 to 15 Fa. very convenient for a great Ship to winter in. The Country abounds with all manner of the beft Provifions, and exceeding cheap; it is a very good place allio to fortify upon, and licure both the Land and the Port.

From hence to Oid Maficleige the Courfe lics N.E. by N. diftance ${ }^{5}$ Miles; two Ls off shore you have of to 7 Fa Water, at the going in lic two high Rocks, the Iflanders call tlicm' 'annu a, you mult leave cmon your Starboard fide. E. from is deltance = Ls is the River' T)idame, where is good frelh Water. but the River is not navigable except for lmall Boats.
Five Ls E from' $D$ idiane lies the great ludranght of Mocamany ; 'ris a double Opening, having the grear River Sanders ruming into the Sea with it ; allo feveral Inands lic III the Mouth : you may anchor at the E. Point of the Entance: Bring a lietle Mland that makes like a Rock, and the W. Point of the Main bearing E. and W. and yournde within $;$ Meles of the Point.
The River is maviable for fimall Veficts, as Mozampany alfo is : bring this Illand to the S.W. from you diflance ${ }^{\circ} \mathrm{Ls}$, Were youmay anclor in 20 Fa. cloic to the Main.

This Coant is full of mlands; and unlets you are well ac. gemated you camot renture in, for here are no lilots to be has. At the End of thete Iflands lies the Harbour of MoriGuinko, halt a Mile within the Opening; you may anchor ili $1 ;$ Fa good Soundings quite to the Shore, onzy Ground: There is a Sand Bank in the Entrance like a Bar; but there is G to 7 Fa. upon it, and all within it decp Water from fide to fide, to that it is an excellent Harbour for all Veffels and all Winds, it lics in Lat. is ato. S.

N . from this Harbour 4 L.s and half lics another Inand greater than any of the others, except the biggeft: It rileslike two Tables, and is low and imooth: There is a Rock on the N.W. cnd of it, which makes at Sca like a Sail : and by this Hhand you may know the Harbour of Moringann.

Off of thete Iflands there runs a long narrow Bank of Sand paraliel with the Shore for more than $弓 \circ$ L.s, but 'ris iicedlefs to deferibe it, for there is every where Water enough upon it tor the greatelt Ships, having 4 to 5 Fa. at leaft, and within it 10 to 10. Fa. you may know it by the Rippling of the Sca upon it.

Farther N.E. 6 to 7 Ls lics Afada: At the Point of the Entrance lie three finall Iflands, one calld Summeretto, or the Surer Lonf, from its Shape: There is a finall rocky Inand dole to it next the Main ; $\because$ ou may pafs between the Sugar ioaf and the Main in 11 Fa . it lics in Lat. 13. As you curce the Road you will fee the great Inland of Noffe lying E.N.E. and W.S.W.

Scren Ls S. of Noffe is another round high Ifand 5 Miles long, and a leffer i L. Kcep off between them both, and go on with the Shore bearing S.W. at Icaft 7 Ls, then anchor in 18 Fa. and you will have a very good Road.

This ludraught of Aftada lics in N. by E. and S. by W. to Mangabelly Road, which lics in the Bottom of it; you have 10 Fa . and nothing to fear all the way.
Mangabolly rifes with Peaks and Flats eafterly and wefterly, and is a kind of an Illand, for at high Water the Tide flows

## ens for the Ifland of Madagafor.

lics N.E. by N. $c c^{c}$ to 7 Fa . cI Illanders call irdfide. E. from pood frcll $W$ W. mall Boats. aught of Mo c great River cral Ifands lic fin of the EnRock, and the purde within $;$
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y and wefterly, the Tide flows
N.B. It chbs and flows generally from 0 in $1=$ foot upon all thas Coalt, and no where more: The Twes fluw hare E.S.E and W.N.W.
 dega/iar and the Coalt of Afficie, befides Shoials.

1. Comuro, which lics in 11. 25 . S. Lat. and is the neareth to the Coalt of Monambigut.
2. St. Cloriflophor's in 17 $_{7}$ : 2 . bordering upon the Baffos ac India.
3. Mobilla in 12. 2. . diflant from Comaro ${ }_{1}+$ Ls S.E. and from foanna E. by S. =o
4. 'foama in 12.12. The Road is very good, lying in a fair Bay on the N. fide of the flland; but if you come to it on the S. fide, you muft thand off at a great diftance to make the N. Shore where the Road is; for the Flaws from the Land, (which is mountainous) are very ftrong and dangerous. You are fupplied here with excellent good Provifions, Wood and Water, very reafonable.
5. Meottiy in 12.56 . It is a high $q$ ico, andmay be feen 15 to 20 Ls at Sca.
On the E. fide of Madarefar are only two Places of Trade,
 the Coaft lics along from Cape St. Scheffian N. by E. 'tis a bold Shore, and you have ;o Fa. within 1 L and half from the Land; it has a low plealine Profipect, till you come ncar P'ort 'Dauppine', there thic Liand rifis a litele.

Point 'T'ice thews it felf before you make the Port ; 'tis a Low rocky Cliff, breaking off as it were from the Main about a Mile and half. From this Point your Courfe is W.N.W. then you fee a round bold Point, which looks reddifl, but when you come nearer 'tis white, and the livethe Fortrets ftani' 'ppon it a little to the N . fide: Here you anchor in 6 to 7 Fa . within a Cable's length of the Shore.
There is a talle Bay before you come to the Point, which is very foul and dangerous.

$$
\text { N. B. It flows but } 7 \text { Foot here. }
$$

It is good Weather here generally from 9 uly to Fobruary, but rainy and ftormy from Pebruary to fuly.
In the fair Months you may fiil with the Wind at E.N.E. and S.W. all along the E. Coaft of Madaraficar: In Lat. 16. 15.S. lics Antongal Bay, a fair clear Gulph, kecping the N. Shore as you go in. The Entrance is 7 Ls wide from Cape to Cape, and the Bay is 20 Ls decp: At the Bottom there is an Ifland io Miles in Circumference, with an excellent Harbour in it; here you may carecn, wafh, tallow, and do any thing as in a Dock, and there is good frellh Water on the infand.
From the northermoft Cape of this Bay to St. Mary's the Courfe is N.W. diff. 12 Ls. St. Mary's is an Illand allo, lying in. $16.4^{8}$. S. and dift. 2 Ls from the Main; it is firrounded with a Riff of Rocks lying out half a mile from the Shore, lo that you can nor go on Shore, no not with a Boar, withour Difficulty and

Farducr N.E. 6 to 7 ts lics Aftata: At the Point of the Eutiance lic three finall thlands, one call'd Summerotto, or the Surer Lort; from its Shape: There is a timall rocky lland clote to it next the Main ; you may pals between the Sugar. Loat and the Main in 11 Fa. it lics in Lat. 13 . As you cutcr the Road you will fee the great Inand of Noffe lying E.N.E. and W.S.W.

Scven Ls S. of Noffe is another round high Ifland 5 Miles long, and a leffer i L. Kecp off between them both, and go on with the Shore bearing S.W. at leaft ${ }_{7}$ Ls, then anchor in 18 Fa. and you will have a very good Road.

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Mansabsilly rilcs with Peaks and Flats cafterly and wefterly, and is a kind of an Inand, for at high Water the Tide nows somed it: Bring the W. Point of the Entrance, and the S. end of Ciffy which is another Ifland, into one, and they will be S.E. by E. and N.W. by W. 9 Lsdift. from one another : Noffe is an Illand; Ls in length $N$. and $S$. To the S. of it is another round high mand calld Noffigumby about $=$ Ls. long; there you may have frefh Water, bur muft fetch it 4 Miles : Southward of this is the high Point call'd Ciffy ; it rifes high, and looks like an Ifland, but it is a Cape from the Main.

The high Lands of Mansabelly are next to this, where there is a Head Land on an Inand, and an Entrance in behind it with a Bay: And this is the Road where the Ships ufually lic that Trade here. You have good riding here in an ouzy Sand, and what depth you pleate from 5 to 30 Fa . It cbbs and flows = Fa. therefore you mult not come within 8 to 9 Fa. at high Water; there a good Ship may ride boldly : The Trading Ilace is on your Larboard fide going in.
the Point of the ummerctto, or the fmall rocky 1 lhand etween the Sugar Lat. 13. As you nd of Noffe lying
iigh Inand 5 Miles n them both, and ${ }_{7} \mathrm{Ls}$, then anchor ad.
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From the northermoft Cape of this Bay to St. Mary's the Courfe is N.W. dift. 12 Ls. St. Mary's is an Mland alfo, lying in 16.48 . S. and dift. 2 Ls from the Main ; it is furrounded with a Rifl of Rocks lying out half a mule from the Shore, to that you can not go on Shore, no not with a Boat, without Difficulty and Danger; but on the W. fide is fuch a Harbour as is not to be feen on this part of the World ; there is good Riding in every Part of it fafc as a Millpond, decp and clean; fo that a Ship of rooo Ton may moor, with her Broadfide to the Shore, as by a Wharf. To go in here, fall to the fouthward in 17.10. and run boldly in afore the Wind. Here you may cut good Mafts and Yards, and alfo Carcen. Wafh, EUc. have frefh Warer caty, and a valt Plenty of Provifions of the beft kinds. We pafis now again to the Coaft on the Terra Firma, on the oppofite Shore, Weft from Madaga/car. There is a Portuguefe Factory on the Coaft of Africa in an Ifland called Mombafs, about 180 Ls N. by W. of Mozambigue in 5 d . S. Lat. where is a very good Port and Harbour; but as Pilots are there ready to carry Ships in, I necd only name it.


## Sailing Directions for the Coaft of Afia, Perfia, beginning at the Gulph of M cuding at Balfora, at the bottom of



S theCoaft of Africa from Melinda northward is not concern'd in Trade with any European Nation, to we have no exact Survey of the Coaft from the Portugucfi Settlement at Mclinda and Mombars, to the Point called Guardafcu, or Guardafoy, at the Entrance into the Red Sen, or of any part of the Africall Shore of the Red Sea: fo that the Account of the Sca Coalts of Africa mult end with Madatsafar, which we fup. pele to belong to Africa.

There is a Comn' 'e indeedinto the Red Sea, or the AraIs,azt Gulph, on th is which belongs to A/ia ; yet that part relates only to tuc pafing the Straits of Babelmandel, and failing to the City of Mocba: for we know nothing of Navigation any farthcr.
They that are bound in here, muft particularly obferve the Scafons of the ycar: The Month of March, or the middle of Appil, is the particular time to go in here, not only for the Commerce, bur for the Winds which are to carry you in or out, which are very doubtful.

The Winds gencrally blow frchl up the Gulph at S.S.E. to the end of $A p r i l$; if they hold is any time into May, tis counted late, and mult not be depended upon. From the cond of Apriit ro the middle of $A u s u / t$ they blow Trade from the N.W. and W.N.W. out of the Gulph, and then they turn to the S.E. again.
If you reach the Iflands of Sacatra in the Mouth of the Gulph by the beginning of April, you are fecure of your Voyage to Mocha, and may fail in Mid-Channel, or under either Shore as you will, but chicfly on the Arabian fide: But if you are later, then you mult kecp the Ethiopian Shore on board. and going in by Cape Guardafeu, kecp under the Shore till you get io high, that ftretching over, you may fetch above the Port of Alich in Arabia, allowing for the Current, which fets down wery flrong at that time of ycar out of the Gulph.

The Ethiap ach Shore is bold, you may run along within a mile of the Land froin Mount leclix; there are no Dangers but what are above Water: there are fome Flaws of Wind, which when the wefterly Winds blow are dangerous, but that is not at the time you flould come there.

Alden lics $3_{2}$ L.s without the Strait of Babelmandel; it muk co fult ilike oundand athe Coaft high with ragocd Rocks.

From S.S.W. at Gufts, an

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# zf of Afia, particularly of Arabia and ulph of Mocha, or the Red Sea, and bottom of the Gulph of Peria. 

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IVinds in the culph.
From the beginning of April to the middle of $A 1 /{ }^{\prime \prime \prime} / t$ a S.S.W. and S.W. and variable to the Welt, with Squals and Gufts, and tometimes much Rain.

From the middle or cad of $A y y^{2} n f$, to the later and of March, E.S.E. and S.E. by E.

The Point of Aden is feldom touch'd at by the Europeans, becaufe of the conftant Wars between the Pcople of that Place and the neighbouring Arabrs; clle the Coffee might be had, and the whole Trade manag'd here as well as at Mlocha; which would be of great Advanrage to Navigation, thas being a much more commodious Harbour and of eafier Accels than that of Mocha.

There is a Light-houlc upon the Mountains on the Larboard fide, and lome Batterics of Guns planted there; but the Lighthoufe is uncertain, fometimes having a Fire in it, and fometimes none. There is a Road alfo under the Batteries, where Ships ride in 4 Fa. clofe to the Caftle, with a Cable on Shore and 2 out to Sca: The Entrance into the Harbour is about half a mile over.

You may ride alfo in the Mouth of the Harbour in ${ }_{4} \mathrm{Fa}$. cither under the Command of their Guns, or out of reach of them, as you pleafe. Ships of Burden may have Depth of Water enough here, from $3 \frac{2}{2}$ to 5 Fa .

There is another Bay caftward of Cape Aden, which is often miftaken for the Harbour of Ader, and which is very large, being $7_{7}$ Ls decp within Land, and 12 broad, with above 60 F.a. Water, in the Bay it felf; fo that it is really a dangerous place, having no Anchoring in it that may be trufted to: you thould therefore kecp a Man always at the Matt-head, to fee that you be not embay'd, or in danger in fuch a Gulph, for the Currents and Indrafts may otherwife deceive the beft Mariner in the World.

When you are got 3 Ls W. of Cape Aden onward of your Courfe to the Strait, you will have good Soundings in 23 Fa . grey Sand with Shells, within $;$ Ls of the Land; and your Courfe lics W. and W. half S.

Midway between Old Aden, and a Hill on the Arabian Coaft call'd Mitre Hill, there is 2 I Fa. bold Soundings, good holding Sand, with a bluifh Ouze : you may know the beit of ${ }^{*}$ the Road by a Trankey which ftands on the Shore, and lome the Road by a Trankey which

Ag in to the middic of Ausiff tlicy blou Trade from the N.W. and W.N.W. out of the Gulph, and then they turn to the S.E. again.
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Ahtulics $3=$ Ls without the Strait of Babelmandel; it makes fift like an Inand, the Coaft high with ragged Rocks: as you come nearer, it makes like two Illands; but when you ctore in with the Shore, 'tis cvident to be no Inland, but a low Sirmd among high sifing Lands. Being fhot over to Aden, youmay kecp on under Shore, in oo Fat when you ftand off, and 10 to 12 Fa. when you ftand in.

Your Courfe from Aden to Babe lmandel is S.W. by W. half W. 32 Ls: the Point of Babelmandel makes like a Quine. When you are off of the Point, you will have fight of the Illaud, which bears the fame Name, the Hills on both fides our Sailors call tic Babbs. This Ifand makes the Entrance into the Gulph be called a Strait, or rather $\mathcal{T}$ wo Straits.

The narroweft of thefe two Paffages is that between the Ifland and the Arabian Shore: To go in here, you mult run up with the l'oint of Babelmandel till you open the Strait; then ftand boldly in, ouly giving the Illand fide a fimall Birth, becaufe of uneven Ground; but the ufual Depth is 8 to ${ }_{14} \mathrm{Fa}$. and Coral Rocks at the bottom. In the great Strait between the Ifland and the Eithiopian Shore, there is no Ground at Iefs than to to 50 Fa and therefore it is the wort Strair, efpecially for Strangers; the Current our, is alfo ftrouger there.

Being paft the Strait about a mile, your Courfe is N.W. half W. for 6 Ls in 10 to 12 Fa. within 4 miles of the Shore; then N.W by W. 8 Ls in from ${ }_{4}$ to 20 Fa. That Courfe brings you fair up with the Shoal, which lics to the fouthward of the Road of Dlocba.

Y'ou muft not come nearer to that Shoal than ${ }_{11}$ Fa. the Soundings being uneven; but kecp in in Fa. and bring the higheft Molque in Mocba to bear E. by S. toutherly ; then haul in for the Road, where you may anchor in 5 Fa. or as you plafe : the diftance from the Serait to the Road is 40 miles.
$N . B$. Here are no Tides, but a conftant Current cither into the Gulph or out, as the times of the Year happen when you are there. N. B. The Strcams ter as the Winds blow.
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is Fa. the I bring the rly ; then . or as you . o milcs. r cither inar happen the Winds
ter enough here, from $3 \frac{2}{2}$ to 5 Fa.
There is another Bay caftward of Cape Aden, which is often miftaken for the Harbour of Aden, and which is very large, being 7 Ls deep within Land, and 12 broad, with above 60 Fa. Warer, in the Bay it felf; fo that it is really a dangcrous place, having no Anchoring in it that may be truited to: you thould therefore keep a Man always at the Maft-head, to lee that you be not embay'd, or in danger in fuch a Gulph, for the Currents and Indrafts may otherwife deceive the beft Mariner in the World.

When you are got 3 Ls W. of Cape Aden onward of your Courfe to the Strait, you will have good Soundings in $2_{3}$ Fa. grey Sand with Shells, within 3 Ls of the Land; and your Courfe lics W. and W. half S.

Midway between Old Aden, and a Hill on the Arabian Coaft call'd Mitre Hill, there is 2 I Fa . bold Soundings, good holding Saud, with a bluifh Ouze : you may know the belt of the Road by a Trankey which ftands on the Shore, and fome very remarkable great Trees by.
N. b. A Trankey is a kind of fmaller Religious Houfe for a reclufe Pcople call'd T)ervizes among the Mabometaths, and fomething like a Cell to a Monaftry. N. B. The Tides and Currents run very Alarp, as you approach the narrow Strait of Babelmandel: you mult be very cautious here, for thefe Currents fetting hard into the Bays and Gulphs on the Shore; if you miftake any of thofe Bays for the Strait, you are on Shore without Remedy. A Dutch Ship was lately loit to in a little Bay on the S. fide of the Babbs. Obferve alfo, if a Ship is loft on the Shore, the Arabians have no more Mercy than the Canibals of Callabar. N. B. When you are within 5 Ls of Babelmandel, and in 5 Ls Offing from the Coaft of Arabia, your Depths will rile 4 to ${ }_{5} \mathrm{Fa}$. at a Caft, viz. from 30 to 35 , and from 35 to 40 Fa and by that Token you may know you are near the Strait.
From the Strair to the Port of Moclsa are very good Soundings, and you may anchor any where in 8 to 10 Fa. the narrow Strait is but 2 mile broad, the broad Entrance is 7 Ls over : it is very hard anchoring, whatever the Neceffity may be, in the broad Paffage; for there is 40 to 60 Fa. and you may judge the Difficulty of weighing your Anchors in fich a Depth, and fo fierce a Current as runs there.

Monnt Felix is a Hill on the Coaft of Ethinpit, between the Entrance into the Gulph and the Point called Gitardifo:, lying with che latter W. by N. and E. by S. making properly the S. fide of the Mouth of the Arativin (iulph.
N. B. Adenlies 16 Ls farther within the Gulph, than any of our Pilot-Books place it : 'tis allo a general milake, which many of our People have, that the Straits are the Entrance into the Gulph, for that the Red Ser or A?: hime Culph begins far withour the Illand of Batelmaindel, and without the Port of Aden it felf. $A . E$. It thows in the Sirait of Baticlmandel due N. and S. On full and Change, the Current runs after the Rate of two and a half Nite an hour.

## Sailing Directions for the Coafts

If you come from Mocba, and are bound to India or the Gulph of Perfa, as late as the beginning or Middle of All$g^{\prime} / t$, you mult keep off from the Arabian Coaft, and run aWay to the louthward, to take the Benefit of the Monfons or Trade-Winds which are then fet in S.W.

The firlt Place of note on the Alabian Coalt, after you are come out of the Gulph, is Maculla Bay, in 14. 16. N. Lat. The Nouth of the Bay is 6 I.s orer, and the Bay it lelf is 3 Ls decp : At the N.E. Point is a very high Mountain, under which is a good Road. fccure from E. N. and N.W. Winds: 'Tis a fate Road, and the Ground good; but if the Soutbs (as they are call'd) come to blow, elpecially $S W$. you muft take care of your felf, for they bring in a terrible Sca: And this is the teafon why here is to little Shipping upon this Coaft; for as the Winds are gencrally one L.alf of the licar S.W. or between the S. and the W. and the othe: half Eafterly and N.E. the Cale is very difficult to a Sailor; for one half of the Y'ear you cannot come at the Coaft, and the other half you camot get off from it.
A. $i$. From Afril to "fuly there gocs fuch a raging Sca up. on all this Coatt, that no Art can deal with it, no Ship can live in it : For the Winds blowing conftantly from Sca at S. and S.S.W. and the Sea fo decp, that at 2 Ls from the Shore there are no Soundings; and there being not one Harbour or Road upon the whole Coalt fecure from thefe Winds, the poor Sailor's Cafe is next to defperate, if he happens to come there at that time.
To anchor in the Road at Mactlla Bay, bring the caftermoft Point S.E. and the weftermoft S.W. and you are in the but of the Road in $3^{\frac{1}{2}}$ Fa. In the Bortom of the Bay you lave is to 20 Fa. good Ground, but open to all Winds excopt a duc North, which feldom blows here.
E. byN. from the E. Point of Maculla dift. $12 \div$ Ls, lics Sbalar, in Lat. 1.f. 52. You may run along Shore here in what depth you plate, from o Fa. to no Bottom. You may know the Place by two Hills, one to the northward and the other to the S.W. of the Town: Here is a good fair Weather Road, but to Harbour, being a mere Strand or plain Shore. Bring the northermoft Hill to the N.E. by N. and the weftermont Hill to bear W. then you may anchor in 9 Fa. a good landy Otze.
E. from Sbabar is Ls lies Cape Bagat bufa, and nothing between to do a Sailor any good: You may anchor under the Lec of this Cape, the Ground is good; but if the Winds blow from the S. you muft be gone, for a $L$ off Shore you have fromg to 20 Fa. but after that 50,60 to 100 Fa . and then no Ground at 200. Fa.

From hence to Kay 1 ut is 29 Ls, all a plain Strand; the Land bchind is high and mountainous, and may be feen 10 Ls at Sca , but low by the Shore, and full of Villages, but an unhofpitaile flarving Country, Provifions bad, fearce, and dear,

Town, bear N. Shore;
E. fro this Coal ropean S to the been tak Paflage.

## for the Coafts of Arabia and Perfia.

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you arc N. Lat. If is 3 Ls der which : 'Tis a (as they rake carc id this is s Coaft ; r S.W. or nterly and ic half of ther halif
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trand; the feen 10 Ls but an unand dar,

Town, to bear E. half S. and a high Houle in the Town to bear N.N.E. cafterly, and your Ship lying one Mile from the Shore ; then you have 5 Fa. hard Clay Ground.
E. from 'Dofar about 9 L.s lics Moribatt, the bef Road on this Coaft for the cafterly Monfoons, and therefore many Etrropean Ships run thither, when being bound from the Arabian to the Perfian Gulph, or to the Indian Shore, they have been taken flort by the cafterly Winds, and have loft their 1affage.
$\therefore$. B. There are no certain Tides upon this Coaft, yet fometimes the Water will rife and fall 7 or 8 Foot. Generally the Water flows as the Winds blow, and change their Courfe with the Monfoons.
N. E. Somerincs upon Full and Change, the Waters for 3 or 4 Days will run ftrong to windward.
If you are upon this Coaft labouring to get to the caftward with an cafterly Monfoon. be nor atraid to keep the Shore aboard, when the Water thus preffes againft the Wind; but watch the Occafion, and kcep along under Shore for the Advanrage of the Current at thofe times: And by this Help skilful Stecrfinen have gain'd the Height of the Gulph of Per fia, and faved their Paffage, when otherwife they muft have lain by at all Hazards, or have run back none, knows whither.

From Moribat the Coaft continucs, without Shelter, Road, River, or Harbour, to Cape Refilgat, or Rofilgate, izo Ls, the Courle N.E. by N: No Wonder few Ships care to come upon this Coaft; for if a Storm trom Sca happens to blow, there is nothing but prefent death, if you cannor keep the Sca; the Shore being all over Rocks and Riffs. This Cape Rejulgat is the eaftermoft Point of the Arabian Coaft, it lics in 22.20 . N. Lat. There are fome fandy Bays to the weftward of ir, with good riding in fair Weather; but that's no Comfort to the poor scaman, while there is no Sielter againtt foul Weather. If you are bound from hence for the Per/fien Gulph, keep the Shore aboard as much as you can, cfipecially from April to \% Iune.

From hence to $M u f$ fat the Land falling off to the N. the Courfe lies N.N.W. tho the Shore goes in N.W. by W. the diftance is 27 Ls , fo that from $M_{c}$ chas in the Arabian Gulph to Mufcat, at the Mouth of the Opening to the Perfian Gulph, is about 320 Ls , or 960 Milcs from W. to E. and N. or N.E. a tedious Coatt, without Shelter and full of innumerable Dangers and Hazards from coutrary Winds and want of good Harbours, as above.

Before you come to Mufcat, about 12 Ls fhore, are two Hills which make like A/s's Ear's, and they are calld fo by the Scamen: After you pals thofe Ears, you open the Towers and Walls on the Tops of the Hills at Mufiat, which you fec between the broken Cliffs of the Point before you ; allo you make an Ifland which lies off thore, a litele to the northward of the Harbour of Mufcat.

This is a terrible Shore too for the Sailors: For in fome places you have no Bottom within half Musker fhot of the Shore,
the S.W. of the Town: Here is a good fair Weather Road, but no Harbour, being a mere Strand or plain Shore. Bring the northermoft Hill to the N.E. by N. and the weftermoft Hill to bear W. then you may anchor in 9 Fa. a good landy Ouzc.
E. from Shabar ${ }_{15}$ Ls lics Cape Bagat lufa, and nothing between to do a Sailor any good: You may anchor under the I.es of this Cape, the Ground is good; but if the Winds blow from the $S$. you mult be gone, for a $L$ off Shore you bave tromg to 20 Fa . but after that 50,60 to 100 Fa . and then no Gicund at 200. Fa.
from hence to Kay fun is 29 Ls, all a plain Strand; the Land bchind is high and mountainous, and may be feen 10 Ls at Sca, but low by the Shore, and full of Villages, but an unhofpitable flarving Councry, Piovifions bad, farce, and dear, and even frefh Water at an exorbitant atate: The Place is known by two Starts of Land upon the Point, which the Sailors call the difes Eiars, and at firf indeed they make like fuch; they may be feen near 12 Ls off. When the Point bears N. by W. from you, and the Ears E. by N. half N. you will ke the Town of Kay/un, and another to the E. of it call'd 'Darya; there youmay ride a little to the N.W. in what depth you pleafe.

From this Road to Cape Fortuack, or Cape Futtock, is it Ls, the Courle E.N.E. the Shore juft as betore, low and plain, but the inland high and mountainous, and all truly barbarous.

Here you have the Coalt a little more favourable, the Soundings fair at a diftance, having not above 37 Fa . at 2 Ls of fhore, tho to to 50 under the Cape, and a Milc and half from it. The Cape is fo high 'tis fecu 20 Ls to Sca.

To the northward of this Cape the Land falls in, and makes a deep Bay, not lefs than io Ls over. Juft under the Cape, N.E. from the outcrmoft Point of the Land, is good riding for a N.W. and wefterly Wind, and tho bare, may be fome Shelecr from a S.W. (the belt upon sill the Coalt) but to a S. or S.E. or cren S. by W. Wind 'tis all open. There is good holding (iround, as a frong Clis, and a dindy Ouze, and what depth of Watcr you pleale, but 'tis a barbaruus Place on fhore. You are here in 15.4 . N. Lat. On the E. fide of the Bay there is no ridin', the land high, the Shore dreadfuily ftecp, atd in many places no Ground within half a Mile of the Rocks.

From Cife Fittock the Courf is over the Bay N.E. by E. and E.N E. 47 Ls, a long Run upon a wild Shore, nothing between to yield either thelter or comfort. There is a high bluff Iand? Ls thort of Tofiar: When you come up with this Pont, you will fee the Port of 7) far lying E.N.E. half N. from you about 10 Milcs: There is a Road indeed to anchor in, but no Harbour, nothing but a plain Serand: There is a decp Bay likewife on the Shore about 10 Ls fhort of ${ }^{\text {D D P far, }}$ but no Road, no Shelter, and generally no Soundings. To anchur in ' Dofar. Road bring the round high Point to bear W. by S. and a Point making a little low Hook on the E. of the

Courfe diffance Alu/cat, is about a tedion gers anc Harbout

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 ander the nds blow ou have then no and; the cn 1o Ls ut an unand dear, Place is bich the icy make the Point half N . c E. of it . in whatck, is 14 and plain, rbarous. ble, the at 2 Ls and half nd makes ape, N.E. ling for a c Shelter pr S.E. or holding lat depth pn fhore. the Bay iiy ftecp, $c$ of the
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Courte lics N.N.W. tho the Shore gocs in N.W. by W. the diftance is 27 Ls , fo that from Mccha in the Arabian Gulph to Mufcat, at the Mouth of the Opening to the Perfian Giulph, is about 320 Ls , or 960 Milcs from W. to E. and N. or N.E. a tedious Coaft, without Shelter and full of innumerable Dangers and Hazards from coutrary Winds and want of good Harbours, as above.

Before you come to Mufcat, about 12 Ls fhort, are two Hills which make like Afs's Ears, and they are call'd to by the Scamen : After you pafs thofe Ears, you open the Towers and Walls on the Tops of the Hills at Mlufint, which you fee between the broken Cliffs of the Point before you ; allo you make an Ifland which lics off thore, a little to the northward of the Harbour of Mufcat.

This is a terrible Shore too for the Sailors: For in fome places you have no Botton within half Musket- hot of the Shore, and yet no Harbour or Port to rum into in calc of a Wind off Sca; fo that if you chance to be upon the Coaft when it is a a Lec-fhore, your Anchors and Cables are of no ufc, and you mult ftretch off to Sea on one Hand or other, or you will be incritably loft.

When you inake the Mouth of the Port of Mufcat, if you intend to anchor in the Entrance, and not go within the Harbour, kecp to the fouthward fide, there you will have is Fa. hard Sand.
$N . B$. The Variation of the Compals in this Port is ro Deg. ${ }_{35}$ Min. Wcft.
This Port is call'd the Key of the Perfian Gulph; but as the Navigation is chiefly carricd on by Arabian Piratcs and Rovers, they cither take no Survey of the Coalt, and fo kecp up no Sca Marks or Dircctions for failing; or they communicate none to the Europeans. The Port is good, but as the Country is mountainous, (for the Hills and Rocks hang over the very Houfes in a frightful manner) to the Gufts of Wind which come off from thofe Hills are dangerous, and fometimes as frightful to the Marincs as the Rocks themfelves, many of which lie under Water clofe to the Shore.

But the danger of this Port is as much from the Treachery of the Arabs as from the Stoms and Rocks of the Coafts; for they are not only Pirates and Thieves, bir Chears in crery thing whercin you can deal with them.

They are good I'ilors for the Gulph, tho not to be trufted, and are valued by all buc the Portuguefe, berwixt whom and them there is fuch an Averfion, that a 'Portugue $f c^{\prime}$ Commander dare not truft his Ship with one of their Pilots; and the 'Por'u!⿰亻cce have of late to terrify'd them, that they hardly dare look out to Sca.

The Anchorage about this Port is very dangerous, lying fo near the Rocks, and the Water to very deep; and even in the Road ic is little better: The Mole or Bafin is inded lafe, but is a Cove rather than a Mole: In a word, 'ris a Road no body gocs to, but thofe that are oblig'd to it by Bufinefs or Diftrels.

## Sailing Directions for the Coa

From Mufcat the Land trends away up towards the Gulph, not fo mountainous as before, but a defart wild Coaft, few Towns, not one River or Harbour for a great way; nor have we been able to obrain any exact Account of the Soundings upon the Shore, or any Survey of the Coaft.
$M_{i t}$ (cat is a good Port on many Accounts, efpecially compared with the Coaft mention'd above. The Mole, as it is call'd, is able to reccive 50 to 60 fail of fout Ships: 'Tis a ftrange Coalt for depth; for within a Mile of the Mouth of the Port there is no Ground, within half a Mile 35 Fa. and in the Harbour 3 and half, and 3 Fa . clean Sand. It is known by fome Inands which lie 2 Ls to the N.W. as alfo by WatchTowers and lietle Forts upon the Rocks; thofe Rocks are black, as are all the Rocks which the Country is full of; far on the Sca Coaft for above 40 Ls there is neither Tree, Builh, or Shrub, nor any Land-Mark to guide Sailors by.

Mufiat is jult under the Tropick, in Lat. 23 and half, N. From hence, I fay, the Coaft of Arabia is nor furvey'd farther on that fide, nor is there any Courfe for Shipping cmploy'd by the Europeans on that fide, to the Entrance of the Gulph : If you are bound to the Gulpls of 'Peria, you mult keep the Shore on board as long as you can, and ftand then over to the eaftward for the IndianShore, or for Diu Head on the Coaft of Guะarat.

From 'Din Head your beft Courfe for the Gulph is firft N.W. by N. to Cape Goadwell in 25 d .40 m . N. and from the Meridian of Dith 6. 10. or thereabouts. In this Courfe you crols the Tropick, Diut Head being in Lat. $20 . \mathrm{d} 40 . \mathrm{m}$. If you nect with variable Winds in this Paffage at W.N.W. and N.N.W. or thereabouts, ycur beft way is to ftand in for the Shore, and ply it up by help of the Land Breezes which you will have in the night, and alfo a Current which fets into the Gulph: Only do not ftand too near the Shore in the night, Ieft being deceived by the low Lands, you run on Shore, when you think you have given the Land birth enough.

From Ciape Goadwell the Courle is W. by N. to the Point of Fachats, the Variation of the Compals being allow'd: The E. Point of the Road lies in Lat. 25.30 . N. low Land, and not eafy to be feen at a diftance, or to be known when it is lecn. About 8 Ls fhort of it, there is a very great round Mountain call'd de Ebowers, with a Swamp and Trecs on the Middle of it very fingular: This will guide you to the Coaft, for 'tis leen all the way, but it ftands within the Land.

There is a Pagode, or little Idol houfe on the E. Point of the Bay; and on the Cape ir felf $1, \mathfrak{a}$ white fquare Rock like a Tomb-ftone, but it is not feen as you ride in the Road. You may run right into the Road, and anchor in 4 to 5 Fa . off of the low Point, or when a Gap in the doubling of the Land bears N.N.E. then the E. Point of the Bay bears fo alfo, and you are in the belt of the Road.

To the northward of Cape" "fafoue, comes in a River dift. about 5 Mile: Any Veffel not drawing above soto in Foot,

## ns for the Coafts of India.

he Gulph, Coant, few ; nor have Soundings
cially comit is calld, is a ftrange of the Port and in the known by by WatchRocks are fill of ; f. Trec, Buflh,

If, N. From d farther on mploy'd by lic Gulph: If kecp the over to the n the Coaft
alph is firft nd from the Courfe you m. If you and N.N.W. Shore, and will have the Gulph : , left being when you
he Point of w'd : The Land, and when it is great round 1 Trees on you to the ithe Land. E. Point of e Rock like the Road. to 5 Fa off of the Land fo alfo, and

River dift. to is Foor,
may run into it as a good Haven ; 'tis as fecure as a wet Dock. When you are in, there is 4 Fa and half at low Water ; but the Entrance is barr'd with only 5 Foot at low Wa. ter, and the Tide does not rife above ${ }_{7}$ Foot.
$N$. B. The Tide flows here N.E. and S.W.
From Cape $\mathcal{F}$ afgues the Courfe is N. by W. and N.N.W. into the Gulph; and if you are bound for Gombaroon, your bufinefs is firft to make the low Point of Cormbarick, or Boombarique, then your Courfe is N.W. 7 Ls.
N.B. Between thefe two Points the oppofite Coaft of Arabia is the narroweft part of the Entrance into the Gulph of Serfia, where it is not more than 12 to 15 Ls over E. and W. The depth of Water is from 20 Fa. on the 'Perfian Shore, and 40 on the Arabian, to 90 Fa. in the Middle of the Entrance.
Point Bomberique has a Rock on it, which makes like a Caftle, when it bears N. by W. half W. There is a Shoal lies off from the Point full a $L$ from the Shore : You have 3 Fa. upon it at the fhoaleft ; but it is fo ftecp too, that there is ${ }_{24} \mathrm{Fa}$. within half a Milc of it. It may be known by the Watcr changing its Colour upon is: In the night it is dangerous for great and decp Ships. To mun this Shoal keep off the Shore in 20 Fa . till you are ture you are paft it ; then you may come in again into to Fa. or lefs, as you pleafe: The reft of the Shore in this Courfe is all clean, and without any danger, being ftecp too all the way to the ine of Ormus.

From this Cape to Ormus your Courfe lies N. by W. half W. 30 Ls. and from the S. fide of the Illand of Ormas to Gorionroon is N.W. half N .20 Ls.
S.W. from the lile of Ormus is an Ifland called Laract, dift. about I $\frac{1}{2}$ L. you may go between them without any Danger, only give a Birth to the S.W. Point of Ormas, becaute tis fhoal for about = miles off, and ftecp too, having not full ; Fa. uponit, and ro within 2 Cables length of it: But your better Paffage is between Ormus and the Main, where yon have every where from 5 to ${ }_{7} \mathrm{Fa}$.

From Combaroon to Cong, a Portuguefe Factory on the fame Coaft, the Courfe is S.W. between the Inand Cbi/inic and the Main dift. 25 Ls. At theS.W. Mouth of the Paffage next to Cong lies a Shoal which reaches quite over from the Point to the ifland: Keep to the fide of the Main, and you have 6 to ${ }_{7}$ Fa. upon it, and on the fide of the Inand 4 to 5 Fa.

At the bottom of this Gulph lies the City and Haven of Baffora, at the Mouth of the great River Eupibrates: There are alfo leveral llands ou the Perfand fide of the Gulph, where fome European and Country Ships often trade; but as the Shore is difficult, and that no Ships venture without Pilots, who are to be had at Gombaroon or at Cong, no farther Defcription netd be given of this Coaft.
$N B$. At the life of Carack, where the beft Pearl are fifh'd for, the Gulph is 60 Ls broad; and from Cape'fafqucs to Baflora is 210 Ls N.W. by W.

Myyme, anc vamation or the compals being allow'd: The E. 'loint of the Road lies in Lat. $25 \cdot 30$. N. low Land, and not caty to befeen at a diftance, or to be known when it is feen. About 8 Ls thort of it, there is a very great round Mountain call'd de Ebowers, with a Swamp and Trees on the Middle of it very fingular: This will guide you to the Coaft, for 'tis teen all the way, but it ftands within the Land.

There is a Pagode, or little Idol houfe on the E. Point of the Bay; and on the Cape if felf is a white fquare Rock like a Tomb-ftone, but it is not feen as yo: ride in the Road. Youmay run right into the Road, sed anchor in 4 to 5 Fa . off of the low Point, or when a Gap in the doubling of the Land bears N.N.E. then the E. Point of the Bay bears fo allo, and you are in the beft of the Road.

To the northward of Cape" "fayues comes in a River dift. about ${ }_{5}$ Mile: Any Veffel not drawing above 10 to 11 Foot,
fame the N Cong the I 7 Fa.

## Sailing Directions for the Coaft of India Proper, $f$ of Perfia, and alfo the Coaft of Malabar, to Ca of Ceylon exclufive.

AVING directed your failing into the Gulph of Per $/ a$, it is proper to add here for your Dircction in coming out of the Gulph again, that having repaft Cape fafques, being bound for India, you mult give the Indian Shore a fair Birth : As for the Arabian Shore, you come no more near it. Begin this Caution in Lat. 24. 30 and keep to off from the Land till you are within 16 to 20 Ls of the River Sanda, which we fuppofe to be part of the Indus.

The Reafon is not, that the Indian Shore is not bold and clean, but that as long as you are to the N. of the Tropick you will find the Winds northerly; whereas atter you have palt the Tropick, clipecially comic on as far as 20 d . S. of the Tinpick, afterwards you will have the Winds cafterly.
When you are come the leng, th of Sinda, go away S.E. and Sieby $S$ till you reach the Land to the Weftward of Diu $H$ tad $\mathrm{ml}=0 \mathrm{~d} .50 \mathrm{~m}$. your will have there 28 Fa. black ouzy sand, and 8 Ls frem the Shore, by which you will know the Con't ; the Water thick and llimy.
The River Sinda lies 1 m 24 d. 45 m . N. Lat. the Land to the fowhward is very low, and not above 4 to 5 Fa. at 4 miles fiom the Shore : The Mouth of the River has a Bar, with nor above 13 to $1+$ Foot Water at full Sea; if you would go in, bring an old white Monument to bear N.E. from you, and flece dircctly with the Mark for the Bar, where if you find ucedful you may ancher without the Bar in $3 \frac{1}{2}$ Pa. good Ground; then you may go over it at your Leiflure, bringing the Monument half a l'oint more E. To go over the beft of the Bar, ftecraway N.E. by E.

Th but called to the upon Fro in 200 the in of Ca Tood Gulph you at the $R_{c}$ and 2 within Ley Ho Th Tree Sailor: S. till calla

Th ward ing th the $L$
ow'd: The $\checkmark$ Land, and when it is great round $d$ Trees on you to the n the Land. E. Point of re Rock like a the Road. to 5 Fa . off of the Land fo allo, and

River dift. to II Foot,

From Combaroon to Cong, a Portugue $f_{c}$ Factory on the fame Coaft, the Courfe is S.W. between the 1 nand Chifinic and the Main dift. 25 Ls. At theS.W. Mouth of the Paffage next to Cong lies a Shoal which reaches quite over from the Point to the inand: Keep to the fuide of the Main, and you have 6 to 7 Fa. upon it, and on the fid: of the Ifland 4 to 5 Fa.

At the bottom of this Griph lies the City and Haven of Baffora, at the Mouth of the great River Eupbrates: There are alfo leveral Illands on the 'Perfian fide of the Gulph, where fome European and Country Ships often trade ; but as the Shore is difficult, and that no Ships venture without Pilors, who are to be had at Gombaroon or at Cong, no farther Defcription need be given of this Coaft.
$N B$. At the Ine of Carack, where the beft Pearl are fifh'd for, the Gulph is 60 Ls broad; and from Capcfa afque's to Bafora is 210 Ls N.W. by W.

## ndia Proper, from Diu Head at the Mouth of the Gulph Ialabar, to Cape Comereen inclufive, and to the Coaft

he Gulph of Direction in 1aving repalt ou mult give Shore, you 24. 30 . and to 20 Ls of the Indus. not bold and the Tropick cr you have d. S. of the ry.
ay S.E. and ard of ${ }^{\text {Ditu }}$ black ouzy Ill know the

Land to the at 4 miles r , with not ould go in, n you, and if you find $\frac{1}{2}$ Fa. good c, bringing the beft of

The firf Port of Trade within the River is Laribundare; but there is ancther place higher up, which is a large City, called Tatta: any Ship that cango over the Bar, may go up to the Port, for there is more Water within the River than upon the Bar by a great deal.
From hence to Dial Head the Courfe is S.E. by E. Diu is in 20 d. 52 m . it is a good Harbour, having $3 \div$ Fa. betwecn the Inland and the Maiu. Gogo lies 10 Ls within the Gulph of Cambaya: if you would go up thither N. by W. from the Tood Point at Gundeck, which is the weftermoft Point of the Gulph of Cambaya, bring the Ifland of 'Peram to bear W. from you at the dift. of 3 miles, and fteer in with ic NW. directly for the Road of Gogo, where you will have $3:$ Fa. good Ground, and 2 miles from the Shore.
$N . B$. Here the Tides run very ftrong, efpecially Spring Tides, there being a very grear Indraft.
From Gogo the Courfe to Suratie is S.E. by E. if you go within the Shoals, you keep a little more to the E. to Swial Ley Hole.
The firft Mark for this part of the Coaft is a great broad Tree flanding within the Land N.E. above swalley Hole; our Sailors call it the 'Devil's Tree. From this place you go away S. till you fee another broad Tree with a Houfe, which they call a Pagoda, about a mile to the vorthward of it.

The River of Suratte does not open till you are to the fouthward of it a good way, the N. Point of the River flretching thwart the Mouth of it S.W. you will fee the Town over the Land, and before you fee the Land. Three Ls from the * C

River

Duc S. from Sandy Point, or Sandy I/and, which lics at the Mouth of the Bar of Suratte, lies the Inand, Factory and Town of Lembay, dift. 12; Ls. There is no Factory of the Euglifh, or my other Europian Nation, in all the Country between them, except a finall Portuguefe Houfe at $S_{t} \%$ onns, of very little import but to wood and water at, in their Run to the Guph of Por fia, and except Yarapore of the like ufe.

The Town and Caftic of Bembay is on the S. fide of the Inand: juft withon that which they call the OLd W'oman's I/and, and S.E. from the OL.! I'oman's Ifland there is a dangerous fiuk Rock, which lics very much in the Fair Way to the Harbour. There are abundauce of Marks to know the Entrance iato Rombuy, and to fhun this Rock.

Hirft, obiferve the 7 Tress above the Cape called Malabar Pomt, flanding on the higheft Land of Bombidy; 3 fland to the E. and to the W. of the Opening to the Illand: Then oblerve a fingle Cocoa-Tree ftanding on the Old Woman's $J / a m d$; bring that Tree into the opening between the 7 Trecs, that brings you juft upon the funk Rock in the Fair IV ay; but bring the fingle grear Tree, which ftands on the higheft Land of Bombay, on the middle of a fecond Range of Trees, on the Old IWoman's I/hund; theic bring you clear of the Danger.

Allo to know when you are clear of it, bring the great Trec upon the Old Womnen's Ifland to the weftward of all the 7 Trees firft mention'd; then you are certainly to the northward of the fink Rock; and if you are to the caftward of the feven Trees, you are fure that you are to the fouthward of it.
But if you would go to the caftward of this Rock, bring Aiazazon Hoyfi open to the caftward, and right with the caftcrucft Angl: of theN E. Baftion of the Town; and keep that Courfe till you bring the great Trec to the weftward of the feven Trecs; then youmay be lure you are to the caftward o: the Rock.

Bombary is in an Mhand Lat. I9 d. there is an Mland to the N of it called Salfit, but the Paffage between them is difficult. N. of Salfet there is another Inand, on the N.E. Point of which there is a fimall Fort, or Houfe rather, within which Ships may run up and anchor in a Road, Ls within the Channel; but they mult take a Pilot to go in. On the S. Point is a Church formorly built by the Portugucfe, called Ecclefia Patoremo.

There are ${ }_{4}$ Forts upon the Illand Salfet, whereof ${ }_{3}$ are feated upon the Paffiee between the Ifland and Bombay Ilaut , and is called Coluy: Onc is at the S.E. Point; kecp off from the Point at this Fort, for the Shore is foul, and many Rocks lie off in the Sea: the next is called Bandura, from thence you have 3 to $4 \frac{1}{2}$ Fa all the way to the third Fort, which is called salfit, at thic Mouth of a Creck;-there

## citions for the Coafts of India.

re: If you great Trecs liave but $3 \div$
which lics at Factory and actory of the the Country at $S t \%$ \% m s, in their Run the like ufe. 5. fide of the pman's IJluind, a dangerous $y$ to the Harthe Eutrance

Iled Malabar $y$; 3 ftand to fland : Then old Woman's the 7 Trecs, air It ay ; but gheft Land of Trees, on the c Danger.
ing the great rd of all the 7 he northward dof the feven d of it.
Rock, bring with the caltand keep that ward of the caftward ot:

Inand to the them is diffihe N.E. Point within which hin the Chanhe S. Point is alled Ecclefia
hercof 3 arc and Bombay int ; kcep off ul, and many andura, from he third Fort, Creck:-there

From Tamana to Coar the Water is decper, but the Fair Hoay is interrupted by a great Clufter of Rocks called the Rocks of Vingrola, or the Cumartbes.

From the Illand of Chonl to Goa is 85 Ls, the Courfe generally S S.E. In the mudde of the way between is another Rogipore in 16. 37. N. Lat. where there is a Fromels Factory. The River is navigatle a c.nfiderable way up; but under the $\mathbf{N}$. Point, or N.W. is a very fine Bay within the River, where there is 7108 Fa good Giound, and fecure from all Winds: if you would yo darther up, you may have a Pilot.

From R"gifore to the ullund of Salfit S. of Goa is 40 Ls, the Courlie SE. Ly S, Goa flands in an Ifland, with an Inlet of Water on both fides; fo that the Harbour, which is the moft capacions in all India, is as it were a double Port: there are many Anchorings and Roads in the Bay, as well on the fide of the City as of the Inland Salfit, too long to deteribe hace: All Siups that go in here take a Pilot, unlefsexeremely well acquainted with the Place : The bigget Ship may ride in great fafecty in the Bay.

From Goa the Courfe is S.E. to Carwar ${ }_{12}$ Ls. This is an Emgli/h Factory. When the Illands or Rocks of Caraar, calld the "Duckey, bear N.N.W. half N. and a fmall Rock which lics in the Roadopens with the Ifland India Dizia N.by W. half W. dift. : Ls, then you are in the beft of the Road; or you may anchor abreaft of Diva, the Body of the Illand bearing N.E. by E. about 2 miles and half off; there you may lic in $10 \div$ Fa. the S. Point of Cararar bearing N. by E.

The Paffage into Caritar Bay is betweenforne craggy Rocks which they call Dackey, and the Inand near the S. Point: In the Bay there is a frall Cove which goes in S.E. \& E. Here fmall Ships lic fecure from all Winds; and near the Entrance of :c there is a litele Hook, where Ships may ride very late in + Fa. and may be fecure from all the weiterly Monfons.
$\Lambda^{\prime} B$. You may go in and out here on any fide of the
\%uckey Rocks, without a Pilor, and without any Danger.
There is 7 to 8 Fa. in cither Channel ouzy Ground.
From Car a'ar to Annanow, a Portuguefe Fort and Factory, the Courfe is S. E. half cafterly 9 L.s. Oft of Annanow W. by S. lic a Clufter of fmall Inands, which they call the Pigeon Iflauds; they lic from the S. Point of Annanore S. by E. about $s$ Ls. Off of the Point which the Portuguefe Caftle ftands upon, lics a Shoal or Riff of Sand ruming out far to Sca, which muft be carcfilly provided againft.

From Annanore the Coaft goes away ftill S.E. by S. 8 I.s to Baflelore, or Baqua, a Factory of 'Dutcls, and another Danilb being upon the lame River. There is good anchorng at a L off Shore without the Rocks in $7 \stackrel{+1}{2}$ Fa. good Ground: But from the northermoft Point of the Creek there runs out a dangerous Riff of Rocks, fo that there is no coming near them. Here is a Creek or Harbour, but the great Ships do not chufe to go in there: The Englifh Fort hore is called Moor's Fourt, lying to the $S$ E. of the orher ' $D$ utch Fort.

Bombery is in an lland Lat. ind. there is an Ifland to the N of it called Salfir, but the Paffage between them is difficult. N. of Salfit there is another liland, on the N.E. Point of which there is a finall Fort, or Houfe rather, within which Ships may run up and anchor in a Road s Ls within the Channel; but they mutt take a Pilot to go in. En the S. Point is a Church lomerly built by the P'ortugurje, called Eicclefia raborero.

There are + Forts upon the Ifland Salfet, whercof $;$ are feated upon the lafidee between the Ifland and Rombay I/hand, and is called Coliy: One is at the S.E. Point ; keep off fiom the loint at this Fort, for the Shore is foul, and many Rocks lie off in the Sca: the next is called Randara, from thence you have $;$ to $4 \%$ Fa. all the way to the third fort, which is called Salfot, at the Mouth of a Creck; there you hane 5 la ; but when the Pafluge widens, you come to $1 ;$ and $=t a$ at low Water ; fo that you mutt be carcfull here, and not go thro' without a Pilot. The fth Fort is called Thomber, on the N. fide of the Ifland; there the great Ships go to ride when they winter in the Country.
$A$. $B$. There is a ftrong Caftle at the Town of Rombas, and sood Riding before it, in $+: \mathrm{Fa}$ well fhelter'd from molt Winds that blow.
Due S. of Bombay, or S. by W. in the Fair IF ay along the Coaft he Hamary and Cannay, two little Iflands, in Lat. is. 51 dift. from Bombay Caftle it miles; on the outermoft is a fimall Fort or ftrong Houfe: They lic a L alunder E. and W. but there is no pating between them, the Ground is allfo rocky and toul; nor is it tate, mulels you ate well acquainted, to go between them and the Main. The Fair IVay lics without them both in 8 , and 9 to 12 Fa .

From thefe Itlands the Coaft trends away S.S.E. to Choul, a Tiatto Fort and Factory, dift. about 6 or $\$$ Is. This Fort ftands at the Mouth of a large River navigable, far up, and a very good Channel, having 8 to 9 Fia. in the liair Was; the Dutcls hase allo + little Forts more, and 2 of note, leveral Ls within the Riser, $\%$ \% Dunte and Rosipore, Eec. There is 7 to 8 Fa Water higher up, and a very good Chanel all the way, clear and good anchoring Ground; they that go in hore, and are not acquainted, take a 7) utch Pilot.

From Cijoul the Coaft lies E.N.E. to Dabul, another Englifl) Factory, dift. 10 Ls: hore alto is a good River, the Entrance wide and decp, but not to clear as the other, for a large Riff of Sund rums out from the $N$. Point of the Entrance almoft half thwart the Mouth of the River; alfo the S. fide is rocky and foul, and therefore the fair $W$ ay is in the Mid-Channel: However, if you are bound in, 'tis beft to call for a Pilot. Uponall this Coaft youhave a varicty of good Roads; but in 1ailing along the touthward youmult give the Shore a Birth of 2 or 3 Ls , and then you have in the Fair IF ay an cven Shore, and an equal Depth of from 7 to \& Fa. feldom more, feldom kels, all the way from the Illand of Cboul to the Watering. place at Tamamo.
an Inand to the en them is diffiI the N.E. Point r, within which within the Chanon the S. Point is , called Eicclif/ia
whercof 3 are ind and Rombay Point ; kecp off foul, and many 1 Bamdura, from 0 the third Fort. a Creck; there ns. you come to t be carcful here. h Fort is called e the great Ships
of Bombar, and II thelter'd from
. W'ay along the ands, in Lat. 18. ic outcrmoft is a under E. and W. nd is allfo rocky equainted, to go Vay lics without
S.E. to Choul, a his Fort flands ar and a very good the Dutch have ral Ls within the rc is 7 to 8 fa Il the way, cle.ar in here, and are
another Englill) cr, the Entrance for a large Riff rance almolt half fide is rocky and Mid-Channel: call for a Pilor. d Roads; but in Shore a Birth of $y$ an even Shore, m more, feldom to the Watering.

Prom Carwar to Annanow, a Wortuguef Fort and Factory, the Courlic is S.E. half cafterly 9 L.s. Dif of Amamere W. hy S. lie a Cluiter of finall Hlands, which they call the leigeon Iflands; they lic from the S. Point of Annanori S. by E. abour 5 Ls. Off of the Point which the Portugurle Cafte flands upon, lics a Shoal or Riff of Sand ruming out far to Sca, which mult be caretully provided againft.

From Anhathore the Coaft gocs alway fill S.E. by S. 18 I.s to Baflelore, or Baqua, a Factory of 'Dutch, and another Danifl being upon the fame River. There is good anchormg ar a L. off Shore without the Rocks in 7 Ha. good Ground: But from the northermoft Poine of the Creck there runs out a dangerous Riff of Rocks, to that there is no coming near them. Here is a Creek or Harbour, but the great Ships do not chufe to go in there: The Euglijh) Fort here is called Moor's Fiort, lying to the S E. of the other ' 7 utch Forr.
S.E. by E. from Moor's fort the next European Factory is Shangulure, being the Frontier or firft Port on the Coalt of Alalabar; is belongs to the Portughe'fi: Here is a good Harhour, but a foul Road, and Slips which arc bound along the Coaft give it a good Birth, and kecp off in 15 to 21 Fa' 'tis dift. from Aoor's Fort 12 to 13 L.s.

From Alangulore to Cammanore, a Fortbelonging to the Tutch, the Courfe is allo S.S.E. Here is a very good Road in 7 to so Fa a I or two of Shore, as is utial on this Coatt.

Five Ls from Cannanore S.E. lies Tillechery, an Eng lifh Factory; it lies in a Bay into which two Rivers empry themfelves, but there are fo many Rocks lic in the Entrance, that great Ships chule to ride in the open Sca 3 Ls from the Port ; if you would go in in tmaller Veffels, you had beft call for a P1lot at the Factory: From hence it is S.S.E. to Calicut to Ls. From Geat to this Port is 82 I.s along the fame Coalt, and the Courfe the tame almoft all the way, namely SS.E.

Calicut is alfo an Engliflh Factory, and much vifited by the Engl/fh Ships, tho you have no Harbour here; but in this Forr, as has been often oblerv'd on thas Coaft, the beft Riding is about 3 Ls in the Offing from the Shore. Bring the Fort to bear N.E. by N. from you; and being 3 Ls from the Shore, then you will have ${ }_{1}$ Fa. good oury Sand: you will know the Town, tho you can not fee it in the Road without the help of Glaffes, by 3 white Spires at an equal diftance one from another, the like is not upon all the Coant.
If you have a mind to ride nearer, you may come into 5 Fa. in the fanc Road and good Ground; bring the + Tombs to the northward of the Town to bear E.N.E. from you half N. and the northermoft Land in fighe $\mathbf{N}$ by W. half W. at the dift. of 2 or $;$ miles from the Shore, and you will have a good Road.
In Lat. ${ }_{11}$. 29 N. lies the Sacrific'd Rork N.E. by E. agreat Rock, or rather a Ledge of Rocks, in the Fuir Hoy, for all this Coalt: a mile and half from them is $1_{5}$ Fa. Thofe Rocks lic not much above i $L$ from the Shore; they ate only a Stone Riff or Reef, pretty high; you may go fafe berwecn them

## Sailing Directions for the Coafts

then and the Shore with fome Caution. They are fo high, that you may tie then at leaft 4 or 5 Ls off at Sea.

Thete Rocks are the only Interruption to the failing along the whole Coalt of India and Malabar, at a $L$ to 2 Ls dift. from the Shore, and at an equal Depth of Water: but here you mult cither run in nearer, as above, to pais between the iand Rocks and the Main, or keep a large Offing to give the Rucksa Birth, in ${ }_{14}$ to 15 Fa .

After you have paft thefe Rocks, you ftand in to the fame Courle again, and keep the fame dift. from the Shore, viz. 2 L.s, and to go on S.S.E. to Cocbeen 33 Ls.

Cocbeen is a Dutch Factory between Calicut and this Port : There are two others, where there are allo good Roads for Shipping, viz. Pavian in Lat. 10.45 and Crannancra in 10. 20. they are fimall places, but there are very good Harbours or rather Roads at both of them. From Panian there runs a Shoal off from the Shore, which reaches to Cochini ; but as it is no where above a L wide, the Ships ride very well without it, efpecially at Crannatuera, whore they ride in 5 to 6 Fa . within a mile of the Shoal.

This Shoal cods in a large round Riff of Sand, juft on the N. fide of the Entrance into Cochin; and tho the Riff has 5 to 9 Fa. on it, in one part gradually thoaling to 3 Fa. and then becoming dry towards the Shore, yet it makes an excellent Harbour at Cochin, for within the Channel you ride clofe under the S. fide of the Riffin 6 to 7 Fa . within 2 miles of the Town. If you would anchor in this Harbour, bring the Town to biar E.N.E. or N.E. by E. from you, or bring the Windmil on the Shore, and the Flagftaff on the Fort fhut into one, and then you are in the beft Anchoring-place, where you have good oury Sand, and 7 Fa. to $7:$ Water.

When you open the River from the $N$. the City or Town mukes a very handfom Appearance, and the River feems capable of great Ships; but the Channel is uncertain and fhoaly, to that you mutt not run up any farther than 6 Fa . as above. There is no Bar in the Habour, but the River is thut up with a Bar, on which there is not above ${ }_{4}$ Foot Water at low Tide, and about $1+$ on the top of a Spring.

From Cocl. napole and $Q$ the Illand at bra de Por which makes a River; bul of Coclueen then opens t Small Veffel it is in length

There is length to tl the Caftle, a called Moody 12 to 28 Fa. frefh Water

From this the E. and th Anjengo, wh
$N . B$. Th
ing men out alfo Sctticme in 10 to
Aljeugo is it lies in Lat. If you woul the Fort N.N N.N.W. halt or you may half $N$. bot Shore. Bet Dalles.

From $A n$ Comaroon, b bar and In Ceylon, and and the Mair

## Sailins 'Directions from the Cape of Good Hope to Suratte, on the out or South fide of the IJ

 A VING directed the Sailor in his Courfe within the Illand of Madasa/iar by the N.W. and from the $A$. rabian Gulph to the Coaft of India by the Coaft of Arabia, it is needful to oblerve that many Navigators think it more convenient, as their Bufinefs requires, to go on from the Cape directly and without the Ifland of Madagaf: ear. and perhaps without touching upon it; which is more freducutalio, fince laging by the new Sertlement at the Cape fup-

Shore aboa
Galla; the Night; fcr of Rocks ab

As foon being no ot board sill y place on che

## es for the Coafts of India．

high，
From Cocheen the next 2 Factorics are alfo Dutch，viz．Car－ napole and Quilon，befides a fmall Fort and Sertlement upon
along $s$ dift． ：here a the e the ds for in 10. bours runs a sit is out it， vithin
n the is 5 to then ellent fe un－ of the Town indmil $c$ ，and have

Town capa－ hoaly， above． with Tide， the Ifland at Porcat，or as it is called by the＇Portuguefe，Li－ bra de Porcas，the Ifland or Colony of Hogs：The Water which makes this an Ifland is an Inland Branch of the Sea，not a River；but it runs parallel with the Sea，from the Harbour of Cocbeen to Caruapole，where it takes in the River，and then opens together into the Sca，making a very good Harbour． Small Veffels may pafs thro＇this Channcl，but not great Ships； it is in length about 70 miles．

There is one Outlet in the middle，or rather $\frac{2}{3}$ d．of the length to the northward，which comes in to the Sea juft by the Caftle，and makes a good Road in the Offing，which is called Moody＇s Bay，and where you may ride in any Depth from 12 to 28 Fa．hard Ground，and where Ships often ride to get frech Water and frefh Provifions．

From this Harbour of Cocheen the Shore falls off more to the E．and the Courfe lies to Quilon full S．$^{2}$ ．E．as it does alfo to Anjeugo，which is the next Factory．
N．B．There is a good Road in the Moutin of the Open－ ing mention＇d above at Carnapole，in is Fa．and farther out alfo in 25 to 30 Fa ．Likewife at i ）uiton a T Iutch Scttlement is very good Anchoring all along the Coaft S． in 10 to 16 Fa．almolt to Anjengo．
Anjengo is an Eugli／bFactory，the farchen S．upon this Coaft； it lics in Lat．8． $4^{8 .}$ and diff．from Coolbech 30 Ls or juft $1 \frac{1}{2} \mathrm{deg}$ ． If you would come to an Anchor here，bring the Flagtaff on the Fort N．N．F．from you，and the northermoft Land in fight N．N．W．half W．and there you will have it Fa．good Ground ； or you may go with the Land as above，aud the Flagfaff N．E． half N ．both give you a good fate Road，and within 2 miles ofl ${ }^{\circ}$ Shore．Betwecu this and Quilon in Eduシ̈ay，belonging to the Danes．

From Aujengo the Land trends away to Cape Comareen or Comaroon，being the fouthermoft Land of the Coaft of Mala－ bar and Iudia，in Lat．7．40．N．oppofite to the Illand of Ceylon，and opening with the Clanuel Icadiag between Ceglon and the Main．
tood Hope to the Coaft of India and the Port of $b$ fide of the Ifland of Madagafcar．
in the the $A$ ． oaft of daviga－ to go adagaf－ ore fre－ рс fup－

Shore aboard by Night or Day，till you draw near Poinat ic Galla；then you muft kecp in 24 Fa．by Day，and 30 by Night；fer to the fouthward of the faid Point runs off a Ledge of Rocks about a mile and a half into the Sca．

As foon as you have doubled the faid Poine de Galla，there being no other Danger，you ought to kecp the Shore clote on board till you come up as high as Columbo，which is the chicf place on the Ifland；it lies in about Lar． 7 d ．N．before you

Ceylon, and and the Mair

## $S_{\text {ailing }}$ Directions from the Cape of Good Hope to Suratte, on the out or South fide of the IJ

 A VING diredted the Sailor in his Courfe within the Illand of Madagaficu by the N.W. and from the $A$. rabian Gulph to the Coaft of India by the Coaft of Arabia, ic is ucedful to obterve that many Navigators think it more convenient, as their Bufinefs requires, to go on from the Cape directly and without the Inland of Madagafcar, and perhaps without touching upon it; which is more frequent alfo, fince being by the new Sertlement at the Cape fupply'd with Stores of all things neceffary, they have not the fame Occafion as formerly to go out of their Courfe to Madasafictr, or to the Morulfoes lilhands.

To ftece this Courle you muft fail from the Cape S.S.E. till you cone into 1.at. 37 . S. and this is necdful, that you may mect with wefterly Winds, which you are more likely to do in that Courfe than by the other way, and for want of which many Ships have lof their Pallage.

When you come into Lat. 37 d. S. flape your Courfe E. or thereabouts, and keep it fo till you have made about 61 to 62 d . Longit. from the Cape, cndeavouring in that Courfe to make the Illands of St. Paul and Amferdan: This is of the utmoft Importance for the fhaping your Courfe afterwards. Being in that Latitude, go on ftill N.N.E. cafterly, till you have by an exact Reckoniug only 15 d . S. Lat. and 72 or at leaft 71 d . Longit. from the Cape.

Then fleer due N . till you crofs the Line; and continue your Courfe till jou come into 7 d. N. Lat. minding to keep the aforeflaid Longit. of 72 d . taking great care that you are not fet to the weltward by the Current which fets out of the Bay of Bengal; and being arriv'd in the abovefaid Lat. of 7 d . and keeping in 72 d Longit. you muft fteer $W$. to get fight of the S.E. cud of the Ifland of Ceglon; and being in fight of the mand, and in the Lat 7 d as above, you are to the northward of the Abalfe., or Bavios, which are 2 Parcels of Rocks, lying the one in 6 d . 10 in and the other in 6.25 .
In fiiling trom hence to the fouthward, if in the Night, you nauft not keep Iefs than 3 Ls off the Shore, in which Offing you will find no Lets than 25 Fa. bur in the Day-time you may Iicep the Shore nearer aboard; thefe Rocks thewing themfelves by their much breaking, may be cafily thumn'd. Between the shore and the great Ba/fins is 11 and 12 Fa. fandy Ground. Bciry to the fouthward of thefe Rocks, you may keep the

Shore aboar Galla; then Night ; for of Rocks ab As foon a being no oth board till yo place on the crofs over $t$ blows frefh, fets extraordi

If by any the Bay of the S . c ad of as Columbo, boldy come llland lies in the Illand if otherwife it the weftwar

From Co Cape Comare is to be kno the N.E. of As you com which lie juf know this C . it, and undel qual height. Cape Comar Wind and C you muft tak Currents are until Night, N.E. for in $t$

When you as clofe abo Night, wait off to 30 Fa Sca-Brecze ; in $1_{2}$ Fa. th be under fail
witn our and India, in Lat. 7. 40. N. oppofite to the Illand of「ide, Ceylon, and opening with the Chanuel leading between Ceglon and the Main.

## od Hope to the Coaft of India and the Port of fide of the IJland of Madagafcar.

Shore aboard by Night or Day, till you draw near $P_{o i z t} d o$ Galla; then you muft keep in 24 Fa. by Day, and 30 by Night ; for to the fouthward of the faid Point runs off a Ledge of Rocks about a mile and a halr into the Sca.

As foon as you have doubled the faid Point de Galla, there being no other Danger, you ought to keep the Shore clofe on board till you come up as high as Columbo, which is the chicf place on the Illand; it lies in abour Lat. 7 d . N. before you crofs over tor Cape Comareen, for that the N. cafterly Wind blows frefh, and the Current between Tuttacorine and Ceylon fets extraordiaary flrong to the N.W.

If by any Shifits of Wind, or by the Current fetting out of the Bay of Beugal, or any other Accident, you fall in with the S. cend of Ceylon, or any part of the W. fide of it, as high as Columbo, or thereabouts, there is no Danger, for you may boldy come near it in 25 Fa . but as the S.W. Point of the Inland lies in 5.50 . N. you ought to take great care to make the Illand if poffible on the S.E. fide, in about 7 d. as aforefiaid; otherwife it may happen that the Current which fets ftrong to the weftward, may occafion the Lofs of your Palfage.

From Columbo you muft ftecr N.W. to get fight of Cape Comarcen, which lies in Lar. $7 \mathrm{~d} .45 \mathrm{~m} . \mathrm{N}$. The Cape is to be known at a great diftance by leveral high Mountaius to the N.E. of it : the Pitch of the Point it felf is very low Land. As you come near it, you ought to look out for two Rocks which lie juft at the S.W. part of the faid Cape: you may alfo know this Cape by a fingle high Mountain which is right over it, and under which ftauds a great Range of Trees of an cgual height. You may fometimes find it difficult to double Cape Comareen, tho you have it clofe aboard. by reafon of a Wind and Current that always fers to the fouthward therc : But you muft take the Opportunity, when the Winds as well as the Currents are not againft you, and anchor from 35 to 40 Fa . until Night, when the Wind will come about to the E. and E. N.E. for in the Day-time near this Cape the Wind is always N.

When you are paft the Cape, you ought to keep the Shore as clofe aboard as you can in 12 Fa. and there anchor rill Night, waiting for a Land.Breeze, with which you mulf fland of to $j \circ$ Fa. where you muft anchor again to wait for the next Sea-Brecze; and when that comes, make fail along the shore in 12 Fa. then anchor again, and fo on, mindingalways not to be under fail while the Tide of Ebb fets to the Southward.

## Sailing Diretions for the Coaft of Coromandel, from of Malabar, to Sugar Loaf-hill and Vifigapatam Kingdom of Golconda, exclufive.



S Cape Comarecn is the fouthermoft Point of Mala. bar, to before we leave it we oughe to take notice, that W.NW. from the Cape $=0$ L.s, there lies an unhappy Rock in the Sca, not above as big as the Hull of a good Ship, and cren with the Water's Edge, fo that it cannot be feen till you are juft upon it. Many a good Ship has been loft uponir, and theretore 'tis needsul publick notice fhould be given of it on all proper Occafions.

Himmon Hi:l, and Mannare Hoil, are the firt Lands on the Scuth Coaft of Coroma:'ic'; and being near the W. end of the Riff of Mannare, wheh blocks up the Navigation between Ceyion and the Main, fiom the Point of the Iliand call'd Hammon Htel by the Pilots, to Adcranpatanam, the firf known Place upon the Main, is $i_{7} \mathrm{Ls}$, the Courfe N.W.by N. Bciween them is a place call'd the Cage, 20 Miles from which lies a Bank of Sand. on which there is not above 10 Foot or = Fa. Water at mofl.

The whole Shore is a flat Bight or Bay quite to Calimere Point: The flrait Courlic to the Point from the Hicl, and not to go into the Bay of Aderanpatamam, is N. by E and S. by W. 15 to 16 Ls ; fo 'tis nearer to the Cape than to the Bottom of the Bay.

Inthe Fair way of this Courfe you have $S$ to 10 F.t. till you come near the Riff, then it thoals gradually; but with great Ships you mult come no nearer than 5 Fa. When you are Falt the Riff, and about the Point, you may kecp the Shore as clote aboard as you pleafe, that is, in 4 and 5 Fa . As loon as the Calimer lagod bears W.S.W. and S.W by W. from you, yen may depend that you are paft the Riff to the northward, and !ate: If you are itill to the fouthward of it, the Pagode will bear. N.W. from you; you have not then above 4 to ${ }_{5}$ Fa. ar th from the Shore, but very good fandy Ground.
fi you come from P'oint Pedro on the Inand of Ceylon, and would make Cafe Calimere, your Courfe is N. by W. half W. or N.W. by N. about 13 Ls: You have 8 to 10 Fa. all the Courtc, thil you come to the Shoalings of Calmer Riff; as foon as you find the depth abate, you muft ftop your Courfe, and come no nearer than, as above, in 5 Fa. unlefs you are in a fmall Veffel, then do as you pleafe.
Being now curred upon the Coaft of Coromandel, and to fail to the N . the firft Place of note is the River and Port of Negpatan, a Factory belonging to the Dutcis, $9 \div$ Ls difance from Calumer, the Courle due N . for the Coaft lies here N . and

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Six Ls Thaid, L slifl, the + Miles, Ground, a it ; firthe whatcer.
tort St. of red Sto Indiaus, a 4 Miles up out a Spir directly E 'Dutch ha River her Navicato the Dutc

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## ions for the Coafts of India.

## mandel, from Cape Comcreen on the South Point Vifigapatam on the Frontiers of Orixa, and of the

Mala. notics, lics an f as the Water's t. Mais needcafions. s on the 1 of the $\mathrm{cen} \mathrm{CO}-$ Lamnion n Place Bciwcen ch lics a or $=\mathrm{Fa}$. d not to S. by W. ottom ot
till you th great you are e Shore As foon om you, thward, : Pagode to ${ }_{5} \mathrm{Fa}$.
on, and half W. all the Riff; as Courle, 4 arc in

River, and may anchor juft as you will, as you draw more or lefs Water: The River is not navigable.

Six Ls from Porta Nova lics Terspatcmam, or Fort St. Thaid, Lar. 12.4.N. a flrong Fort and Factory of the $E n$ glilh, the Courfe N. half E. or S. half W. Keep an Offing of Miles, where you will have 8 to 10 Fa. all the way good Ground, and good anchoring, wherever your Occafion requires it ; firther out you have if to 25 Fa. and then any depth whatever.
fort St. Dacid may be known off at Sca, by a Fort built of red Stone on the other fide of the River, belonging to the Indinus, as alto by a great red Pagod which fands on a Hill 4 Miles up the Country. From the N. Point of the River rums out a Spit of Sand, which you mult take care of ; it runs our directly E. into the Sca. To the northward of the Fort the 'Dutch/' have alfo a Factory withiu Gun- fhot of the River; this River here is larger than any before it, but yet of no ule for Navigation, except for frefh Water: You may anchor before the Dutch Factory alto in ${ }_{4}$ to 5 Fa.

Four Ls from liot St. Tavid N.E by N. half N. lics 'Putlichery: Here is a Trade, but no Factory; and a tinall Riscr but no Harbour. The River is on the S. fide of the Town, and on the N . there runs off a high Ridge; 'tis above Water, and is call'd the Ridje of Pallicisiy: You need not be directed to go without it, fecing you can't go near it ; bur kecp off 4 or 5 Miles frem it in 6 to 7 Fa. becaufe there are Shoalings nearcr to it. This Ridge runs into the Land alfo, and makes there like a Mountain, and is call'd by the fame Name.
Prom Pullichery to Calmore is is thort Miles N.E. it is known by a white Pagode or Idol Temple near it: Here you keep ftill the laue Offing of , Miles, but have the Water inmewhat deeper to to and 12 Fa. groud hard Sand.

From Calmore to Conimore is 9 Ls; there are foa, ce Villages on the Shore betwecn, and a long Girove with a \%agode at the End of it, which is a Sea Mark to the Coalt : But here are no Crecks or Habbours, only a clear Srrand as before, and the fame Offing ; only that off of the Grove there lics a Riff of Saral which ferctches a Mile iuto the Sca, and lies to the northward; the Grove and Pagode is your Mark to know it by, and you have nothing to do but to keep ycur Offing, and not run in there. There is another Linghidl Factory at Conimore, and a good Road before it: You have there allo a thick Grove, and two Pagotas to know the Place by ; there is a Biyer at Conimore, but you may nde beyond, or to the north-
ancrak ny gouare etin oo me nethward of it, the Pagode: will bear N.W. from you; you have not then above ${ }^{+}$to 5 Fa. at + Ls from the Shore, but very good fandy Ground.

If you come from Point Pidro on the Inland of Ceylon, and would make Cape Calimeri, your Courfe is N. by W. half W. or N.W. by N. about 13 Ls: You have 8 to to Fa. all the Courte, till you come to the Shoalings of Calimer Riff; as foon as you find the depth abate, you muft top your Courfe, and come no nearer than, as above, in 5 Fa. unlds you are in a fmall Veffel, then do as you pleafe.

Being now cntred upon the Coaft of Coromandel, and to fill to the N. the firft Place of note is the River and Pore of Nigafata':, a Fatory belonging to the ' $\operatorname{Dutc}$, , $9 \div$ Ls difance frombatimer, the Courle due N. for the Coaft lies here N. and S. Your Courfe rums along by the Shore, which is all good and clear, and you have nothing to do but to keep the depth of Water, $\dot{\%}$ e to 6 Fa . The Place is known by a Pagude which Itands about of Niles to the northward of the River, and is feen ut the Offing very fair. Here is good anchoring in the Road betore the Town, but no Haven; for the Rivers here are all finall. being lut of a thore Courli.

Fourtecn Miles from $N e$ gapatam, the Courfe N. half W. lics Karical; 'tis a limall place upon a little River, and Ships ride lometimes there as Occafion reyuires: You go to it all along Shore, only keep towards the $N$. Point a little off the Shore, being fomewhat S. The River here is of fimall ufe, bemg often dry.

From hence, the Courfe being the fame, you go on to Trainquebar 8 Miles all along Shore: Here is a Damflb Factory (or Colony rather) for they ficin to plant the Country there. Near it is a River, and fometimes frefl Water, but no Navigation, for fometimes it is quite dry alfo : You may ride very caly here in 5 to 7 Fa. off of the Fiactory.

From Trangubar to Calderon the Coalt is ftill the tame due $N$ diftance about 6 Ls. There are two linall Places and dry Rwers between, but of no import, call'd Laurchatenam and Trunclatan's; there is a River too, bur'tis dry. At Calde. mir lics off a Riff of Sand, which you muft take heed of, that is, keep off in 9 to $10 \mathrm{~F}_{\mathrm{a}}$. for tho it runs off far, yet it funks down into 5,7 to 9 Fa. at lant, and to you lofe it. There is a River within the Rift; or on the W. fide of it ; but you mult so about the Riff to the northward, before you can come at the River: You may turn up within the Riff to the Mouth of the River, but you camnot go far in, only to take frefh Water, which is very good here. The Riff is ftecp on both fitcs, In you muft not dare to come nearer to it than 6 to 7 Fa. At the End of this Riff, N.N.W. from Calderon 4 Ls, lics Porta Noza, the Mark to know it by is four Pagodas on the Shore: In the way between bring Porta Nova duc W. hom yon!. When you are $;$ Is off Shore, and the two fouthemint $l^{\prime}$ 'as'das thut moo one. to that you can fee but three, then you have a good Roa! jett before the Mouth of the

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i, the rasora $\mathrm{JC}_{4} \mathrm{to} 5 \mathrm{Fa}$. und.
CCylon, and by W. half W. o Fa. all the imer Riff; as your Courle, fs you are in
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c N half W. r, and Ships go to it all little off the finall ufe, bc-
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At Calde. ake heed of, fiar, yet it you lofe it. c of it ; but fore you can $c$ Riff to the only to take is ftecp on p it than 6 to ilderon 4 Ls, -Pagodas on Vova duc W. he two fous. fec but three, outh of the
knotin by a winte Pagode or nom Pemple near it: Hene you keep ftllthe dame Otfing of \& Miles, but have the Water fomewhat deeper to 10 and 12 Fa. good hard Sand.

From Cahmore to Conimore is 9 I.s; there are fome Villages on the Shore berwecn, and a lugg Girove with a Pagode at the Find of it, which is a Sea Mark to the Coalt : But here are no Crecks or Habours, only a clear Strand as before, and the fame Offing ; only that off of the Grove there lies a Riff of Satul which firetches a Mile iuto the Sea, and hes to the northward; the Grove and $P$ Pagode is your Mark to know it by, and you have nothing to do but to keep your Offing, and not run in there. There is another Enslaj) Factory at Conimore', and a good Road before it: You have there allo a thick Grove, and two Paroodas to know the Place by; there is a River at Conimore, but you may ride beyond, or to the northward of the Riff of Sand in 7 to 8 Fa, within a large Camonfhot of the Shore; fo that 'tis all one with a Harbour, the Sand breaking, off the Sca. Near Cominore is a fimall Factory of the 'Dutcis at Saderaffapatenam, where the Road is under fhelecr of another Riff of Sand lying N'. trom it: The © ${ }^{\text {Dutio }}$ call it Coreloing.

Seren Ls daltance from Conimore lies Cabelon, another ' Diatch Factory, the Courle ftull N. cafterly or N. by E. Be' tween them are the feven Pajodas, a known coafting Mark to know the Places by. Thwart from theic Pagodar, as if tet on purpofe to warn you, take care to kecp a larger Offing than before, the Ground being foul and itony ; nor muft you an. chor any where thereabouts, till you are at lealt it $\frac{1}{2} \mathrm{~L}$ from them to the northward: Beyond rhem the Coalt varies a hittle to the E. and you go away N. by E. and N.N.E.

From Cabilon to Fiort St. Gicorge, or Madralidpatam, is 5 Ls; there is a Place between call'd St. Thome, formerly Portuguefe, fince Fi: nch; but it has no relation to Navigation, ncither Road, nor Creck, nor any Bufunets done there late1y. The Road at Fort St. George is well known, being the chief Factory of the Enylth on the whole Coant ; yer here is no Harbour tor Ships of burden, but they load and unload in the open Road, which is very good, hard and holding Sand, and 5 to 9 Fa . Water.

Here you mece wath the firt Sand or Shoal that you will have on the whole Coaft, Jying off in the Sca; this is calld the Ritts of Natoer, and the Manoes; they lie N.N.E. from fiot St. Gcorge: There is a Land-Riff and a Sca-Rifl; the Mark tor them is a linall Grove of Trees on the Shore, the Top of them growing flat and even: By thefe, which they call the 'lable', you lail along Shore, keeping withour in 9 to 10 Fa . In about the ulisal 4 Miles Offing you have $1_{2}$ to ${ }_{1} 3$ Fa. Brang the rlag-Staff on liort St. George to bear W.N.W. $\therefore$ N. And you may anchor fecure at a Mile and half diftance trom the Riff.

The Sea-Riff is in the lame Point of the Compats from the 1 and-Riff, as the Laud Riff is from Fort St. Gieorge, and the fame diltance, ziz. 8 Miles: Kecp your Lead :omg whale you

## Sailing Directions for the Coaft.

are in the Ofling, and kecp in 9 to 12 Fa. till you come into flif Clay Gromid : Then go on in the fame Courfe N.N.E. till you bring = Cocoa Trecs, which you will fec upon the Coaft, in one with a fimall Grove which you will fee there allo : There if you are in 3 or ${ }_{4}$ Miles Offing, you are at the End of the Land-Riff; then kecp on the fame Courlic, till you open the two Cocoa Trecs again from the Grove about a H.undaphe's length; and then go away N.E. into 5 or 6 Fa. and lind that Courfe and Depth till you find 7 to 9 Fa. fliff Clay citound, and fome Sand: Then you may be fure you are pait the Ser-Riff afo, and may fland in towards the Shore in the nhial Olling of + Milc, which is as a Fair llay to all this coart.

As you fail along this Shore, you muft take fpecial care, and mand the Marks of this Land-Riff, for it is very deceitfiul, and thoals all of a fiedden by whole Fathoms, as taft as you can heave the Lcad; but if you mark thic Altcrations of the Depths, you may be fure jou are drawing ncar the Riff, of which thole Trecs fill give you notice : You mult come no nearer it than : or 8 la if you come nearer you will find your felf at a lols; for if you come into 6 Fa. your next Calt will be but 3 Fa. or ${ }_{17}$ Foor ; fo that with a grcar Ship ir is very dangerous, tho it is not floaler than :t or 15 Foot: This Depth is about two Miles of Shore, and it is in brcadth about two Musket- Hhot over; the Soundings within it are as uncven as the aforeLaid, $2:=2,5,6$ and 7 Fa.

Note, That the Ends of the Land-Riff and Sca-Riff bear from cach other N.E. by E. and S.W. by W. near 2 Miles: The Sca-Riff lics along the Shore N.E. by N. and S.W. by S. : bout 8 Milcs Olling will carry you withour it; y ou may kccp :hong the Edge of it, in 8,7 and 6 Fa. but come not any near1. Eiclore you lave the Flag-Stafl W. and by S. frorn you; and thicn you may lafely fland over the Riff towards the Shore Uith a loutherly Wind, but with a northerly Wind the FlagStall" mull bear due S.W. from you, with Ships that draw from 1 ; to 16 Foot Watcr ; but with dimall Crait of 9 or 10 Foot, jou uled take no notice of the Sca-Riffat all, for there is no lets than 16 or is Foot upon it: Yce for thote that are not weil acquainted, tis fafett to kecp the open Courte, and go withour all, rather than over the Riff.

From fort St. Ginyge to 'lulliacut, not reckoning your going about the Sands and Riffs above, the Courfe is N.N.E. northerly. Pulucut is a 'Dutch) Factory in a little Inlet of the Sea, where two Rivers come into the Gulph of it ; yct here is no Harbour worth maming, but the Ships ride in the Roud, as at Fort St. Gicorge, in ; to 8 Fa. good Ground, and tolerably well theiter's. The Rivers are not navigable here, or any where on this Coaft, at Icall not for a great way.
To the N . of this l'ort lics another Sand-Rill runuing out into the Sca, much lager and longer than the Sca-Rifl' of Monbeer, and flretches farthicr along the Shore, as well as farther into the Sc.: It hics off of a tmall Place calld Cycaratocric ; the Courfe to it is N. by W. diftance from 'Pullacat 8 Ls ; and trom thic N. end of this Riff, with a wide Chamel between alio, there beginsanother, not to be callida Rall but a large

From cnough like the In this $B$ rics, as Courfe finall Ph Pcuny t into the and you Offing. w.y trot Velfels or if th other not

When Way, dif 3 (i) 9 Fa diftance
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carc, and ictiul, and you can c Depths, hich tholc cr it than at a lofis; but ${ }_{3}$ Fa. rous, tho about two usket-1hot the afore-
-Riff bcar 2 Milcs: S.W. by S. may kcep any nearyou; and the Shore the Flag. that draw of 9 or 10 for there te that are rfc, and go
your gois N.N.E. littlc Inlct of it ; yct ide in the ound, and rable here, valy.
muing out iff of Mon as tarther araloocric; 8 Ls ; and :1 betwecn but a large

From Caletore the Shore makes a large Sweep, not dece: conough to be calld a Bay, and yet a lietie like a Crefent, o: like the Moon when near the Middle of the fecond Quarter. In this Bending are feveral fimall trading Places, tho no racto. rics, as follows. From Caletore to Montipoli difl. 31 Ls , the Courfe between N. and N.E. by N. Between them are the finall Places of Pamy, Carera, Cionleram, or Codegan. At Pemy there is a dangerous Riff lics off Shore, rnming out into the Sca at Icalt ${ }_{4}$ Nites; kecp in $1+$ to 16 Fa. there, and you are fure to be without ic, and to be in 6 to 3 Miles Offing. There lics another Shoal off of Givethym, a little way from the Shore ; but as there is Water cenough for timall Veffels to go over it, and grear Ships hare no Buifinels there, or if they had do not come near the Shore, there nead no other notice be taken of if.

When you are at Montipoli, you come into your ohd Faik Way, dittance, and depth arain, which is + Mik's Offing, and 3 tio a Fa. Water; and fo you keep on E.N.S. to Pecipol;, diftance Is.
N. 13. From Montipoli S.E. by C. 16 Miles off in the Sa, lics a Shoal or Spit of Sand, flretching in Ingeth S.W. and N.E. for about $S$ Ls; There is an duger on ie for depth, for the Somadings are gradual and good; the buthermoft end is the thoaleft, and no where lets than $3^{\frac{-1}{2}}$ to ${ }_{4}$ Fa. fo that as you find it thoaling by your Lead, you may kecpan Offing according to what Water your ship draws: Alfo you may go within it ia $s$ to :o Fa ftiff Clay ; but if you go ncar the Ruf, you will find it tandy, and by the Change of the Gromd you will know you are comeng towards it, and to may kecp of agin as you plate.
You will know the Coaft between houtipst and Petpoli, that is, Creat and Little \%oll, by a very remarkabic Grove of Cocoa Trees, which lie along the Shore from righe over the Town weftward; they grow even and that on the Top like a Table, and is is calld the Table of Praipoli: Hetc you kecp a large Offing, wiz. to s Miles. and in 6 to 7 FI. the Shoalngs bemg more gradual. As Pitipos the Tirtch have a Fatory, the latt where they hase any fort on this Coaft, till you cater the Coaft of Oris. Off of Patas there is another Bank of Sand, but it lies tarther our, and there is a larger Channel between it and the Main.
That Riff of Sand lics E. from 'atifoli alnoll ; Ls offrom the Main, and is gencrally a Ls broal, tharpuing to the N. ced in a Point ; onc part of it towards the harp N. cnd is dry at low Water: The Rifl has generally from 3 to 7 Fa. over it, and there is from 3 to 11 and 12 Fa in the Fair Way betweer, good flrong Clay Ground. Towards the inucr E.f.e of the Shoal is 10 Fa. ttecp, and good hard Sand. From hance you
 Whan you go from Petifoli for the wom, the Couris is W. or at mot W. by N. If fiom the N.E. cond of the Shoal or Riff fpoken of, then'tis N. by W. and N.NW. The tormer is 1 I L.s, the latter but 18 Alics, but with this difierence, that m the firt Courfe you make only the hethay wion.
is mish than 1 e or in foot upon it: Yet for thote that are not well acepuantal, 'ths lafeft to keep the open Courte, and go without all, rathar than ofer the Raff:

I rom liort St. Gionge to 'lullicut, not reckoning your going about the Sands and Ritlis above, the Courte is N.N.E. nistherly. Pullacat is a 'Duteb Factory in a little Inlet of the Sca, where two Rivers come into the Gulph of it ; yet hate is no Harbour worthnaming, but the Ships ride in the Rond, as at Fort St. Siores, in $z$ to 8 Fa. good Ground, and rolernbly well ilictered. The Rivers are not navigable here, or any where on this Coaft, at leath not for a great way.

To the $N$ of thas l'ort lies another Sand-Rall running out into the So, much lager and loneer than the Sea Riff of Moni:cor, and ltucthes finchoralons the Shore, as well as farther into the Sea: It hes oll of a Imall Place call'd Cacaraboeric ; she Courfe to it is N. by W. diftance from 'P'ullacat 8 Ls ; and foom the $N$. cond of this Rill; whtha wide Channel becween alto, there begins anoticer, not to be callid a Rufl but a large Bank of Sand, Atretching about 10 Ls in Icngth, and in fome places 3 Is to 3 broad: There is not above $1 \%$ and at moft = Fa. Water upon it, to that no great Ships muft come near it.

In the Channel jutt mentiond, between the Sca and the Land-Rufs, you may go thro' with a great Ship in $3:$ and 4 I.a. but when yougo on northward, between the great Bank and the Main, you mult borrow of the Main, for the Riff is very uncertain, and tometimes flecp too, fometimes that off; therefore you mult keep your I.cad carcfully going.

If you are at 'l':llacat, bound N . and would go without the Rifi, as is far the lafeft way, keep heaving your Lead, and come no natrer than \& to 12 Fa. of the outer Edge of the Riff; but fleer on with the Edge of the Riff, diftunce as above, N.N.E. If you have decpen'd your Water on any Occafion to is Ia. you mult cdge in again to o Fa. which will kecp you cnoteh off from the Riff; and it is necdful to keep the Riff avcutd, which is beft done in that Depth.

Albo if you would go to Macklepatanam, tis needful to keep as near tioc Riff as may be with Rifety, becaute of the Cursonte, which in "aly to Augu/t fer to the N.E. and N.E. by N. cafterly: But if yougo right on, then ftecr due N. after you are pait $P$ 'tifoly, which is beyond the Rilf.

Thus ereat Sund is call'd the Riff of Armygonn, from a Villige of that Name upen the Shore W. from it: This Village lics N.N.W. from l'mlacat; and N.N.W. from that, diftance $\because 1 . s$, on the N . fide of a River, is a limall Hill up in the Couatry, from whence youmay lee the high Land of 'Pulla(at, wheh is a Mark for the Place from the Off-fide of the great Riff.

Fom hence to Caleore the Courte is N. cafterly. Kecp but a Miles Offins, m this Courte, becaute of the Riff without, and you will have as good a Depth of Water in that Offing as youncel, b. 1 yg y to 12 Fa, good hard Sand.
the Sh have a Coaft, there thare is

Tha the M: in a $\mathrm{P}^{\prime}$ low W: there good it Shoal is ftecr to When W. or or Riff former rence, or ' 7 ) u' you kc is rounc

Whe bring tl the To
Road, 'lutch the chic Point.
Point, 16 d. 8 All al of Sand but very Riff; y and in great Sl lirom Courle of the runs out out dan! the Lan utual fo above 7 the Cha it, and your L Whe
very gr N. by F ncl. 2 Hamel urlc, and go
g your gois N.N.E. little Inlet of it ; yct ride in the round, and gable here, way. unning out iff of Monas farther carabocric; 8 Ls; and el berween but a large and in fome $1 \%$, and at mult come
ca and the $3 \div$ and 4 great Bank the Riff is ics flat off;
vithout the , and come the Riff; as above, )ccafion to kecp you cp the Riff

## ful to keep

 ithe CurN.E. by N. after joufrom a Vilhis Village $t$, diftanice up in the of 'Pulla-)ff-fide of
rly. Kсер Riff withthat Offing
the Shoalmes beng more gradual. At l'aipoli the 'Diat', have a Factory, the lall where they hwe any fort on thin Coaft, till you enter the Coaft of Orize. Off of $\because$ ' $\mathrm{ibj}_{\mathrm{j}}$ ! chere is another bank of Sand, but it lies braber out, and there is a larger Channel between it and the Man.

That Riff of sand lics E. from 'retifoli almoll a Lsoff from the Main, and is gencrally 2 L.s broad, tharpuing to the N. end in a Point ; one part of it towards the fharp N. cnd is dry at low Water: The Rifl'has generally from 3 to 7 Fa. over it, and there is from 3 to 11 and 12 Fa in the Fair Way betwecn, good itrong Clay Ground. 'Jowards the inner Edge of the Shoal is 10 Fa . ftecp, and goo 1 hard Sand. From lience you ftece to 'Dat Point, or, as otwers call it, the P'ean of Micthe When you go from Pitipoli fo. the e'ount, the Couric is W. or at moft W. by N. If from the N.E. cnd of the Shoal or Riff lpoken of, then'tis N. by W' and N.NW. 'The former is $: 3$ Ls, the latter but is Miles, but with this difterence, that in the firtl Courfe you make only the Nethat Point, or 'Tue' Head, whereas in the laft Combe trom the Sand-head you kecp off, and go about into Mithleyatam Noad, which is round the Point.

When you are in Mafpuin!atam, or Me:thipatam Road, bring the great Tree, which ftands over the River S.E. from the Town, to bear duc $W$. from yen; there you have a good Road, hard Sand, and 4 to ; Fa Water. There is both a 'Dutch and an Euglifh F:retory at this Place, but the Eutg!if) is the chicf; it lies in a decp Bight, which goes in N.W. of $y$ ) it Point. There are two Riwers here on the N. fide of the Point, but neither of them navigable: The Point is in 16 d .8 m.

Allalong this Coaft to the Peint, there is a Flat or Shoal of Sand runs along the Shore, which they call a Land-Riff, but very improperly : At the 'Pcint indeed to mons out like a Riff; you muft kecp off at the diflance of 8 Miles at leak, and in going round the Riff; come no nearer thim 6 「a. Witha great Ship.

From Methlepatam Road it is 14 Ls to Mijepere, the Courle E.S.E. it is at the N. Point of the Bay. On the N. of the River at Metblep:am is another Land-Riff, which runs out into the Sca + Miics ; but you may run over it without danger, with your Lead, in 4 to 7 Fa. but come no nearer the Land than + Fa, at your peril : The River is larger than ufual for Rivers on this Coaft, but not navigable ; not otten above 7 Foot Water, never above 2 : And on the W. fide of the Chanuel there is a great Shoal ; mall Velfels may go by it, and great Ships camor go in at all, to youmult try it with your Lcad.

When you are in the Bay thwart the River, you will tee a very great Tree to the caftward of the Town; bring the Tree N. by E. from you, then you are in the Mouth of the Chaitnel. 2 Ls W. of this River lics the Nook called Ombelt, or Hamel Hok', whare the Europeans frequently haul up their

Ships upen extraordinary Occafions to carcen, clean, tallow, ghate, and fometimes even to the ath them; the phace being as consenent tor that purpofe as can be where the Tide rites to liete upon the Flood. It is hoal off here, for at 8 mile from the land, you have but; to 3 Fa. Inft Ouze; fo you have nothun, to do but mind your Lead Night and Day upon all this Coalt
 Course E.N.E it mall alonga clem Shore; keep in 12 to 16 Fa and 2 : 1 . offing. Four miles thert of the l'oint you will tee three Pato ar, whech is the Mark to know the phece hy; they ftand on the E. fide of the River l'ifieroms, the firtt Rirer We meer with on the Contt that has a Nanse. Off of GooracEuce boing lice a Ruff, wheh runs + long mile into the Sca; you matl come no nearer it than 12 Fa the Rill being fteep, and the Soundmes very uncton, elpecially coming from the Wetward: on the other fide'tis better, and you may come Wethus or - Fow with your Icad.
 mentiens in a Line, tare crots the Bay, it is but is : Is from Point to Point: But togn round the Beght it would make $=5$ Is at leatt. Hete you have heh tand and deep Water, the frit being hilly and the hater poto 35 Fa. decp ar 5 l.s offing; allo in a miles you hase if Fi. good landy hard Ground.

From I'at tare the Coalt goes away N. by E. and N.E. by N. and N.NE romdiag to limheratom $20 \% \mathrm{Ls}$; the Courte is along Shore here, with an offing of bur 2 miles, till you come over againt l'any or l'oaddy, where there are 9 or 10 great

Ros ther י1por by. Nhor bit tice ing Kect (iai in tl micta W. and If kcep Shor both will 160 will Curn in br

## Sciliting Dircitions for the Conft of Orixa, and of the great River Ganges, vulgarly called the $R$

 S Ti isatatam is the laft Factory on the Coant of Cononnandel; fo whatever trading places there may be on the Coatt of Coliconda, we tee no Factorics for agreat "ay together: Canave Hill or Point we take to be fuilt; there is a fimall River, but with no Narionton.

 ". NE not above i a Pont varying. Neither are there any Tiwne or Trading-places of note on the Shore, or any Shoals or Sunds, Sca-Rifts or Land Riffs, funk Rocks or open Rocks, that are confiderable in the whole Courfe; no nor any Harbours or Bays. Rivers or Behts, Inlets or Openings worth notice on the Coalt, excopt a fiew Rocks above Water off of 'Tandy; Lut 't:s all an cica Strand, the Depths and Offings almoft eginal, fiom $1=$ to $1+a^{\text {and }} 15$ Fa at from 1 L to 2 Ls off Shore, and very much equal and alke all the way.

From Canreparte to Manchepatam the Coaft varies \& Point to NE. by E. the dift. 8 I.c. Here the Land is lets even, and

## ections for the Coufle of India.

clean, tallow, a phace being the Tude riles for at 8 mile puze ; to you ad Day upon

0 if lis, the in 1: to 16 oint you will the phise by ; the firt River If of Cioaric. into the Sca ; r' being flcep, ing from the na may come ourle is N.E. is is from ould make $=5$ cp Water, the $r$ I 1.5 ofling; Ground.
and N.E. by the Courfe is till you come 9 or 10 grcat

Rocks in the Sca, but they are high out of the Water, and fo there is no Danger of theni: Alto there lie; or 4 great Rocks upon the Strand, which ferve as a Mark to know the Town by. Thace is an Einglall, Factory at $V$ if angapatam, ${ }^{1}+$ miles thore of Rimlapatam. There is a good Road at this Town, bat uothing cllc in the Sca, or on the Shore, worth your notice: you ride in 6 to S Fa. foft Ground, the Factory bearing W. by S. from you.
From hence to Canare Toint is 4 Ls, the Courfe N.E. by E. Kecp along Shore in to $_{9}$ Fa. no farther our, for next this fair Way lic the well known Rochs of Santipelle, 2 Ls out in the Sea: You will know them by a grear Thicket of Patmeth Trees to the caftward of the Town; they bear N.W. by W. from you: allio by a limall round Hill up in the Country, and another like it on the Strand.

If you would go between the Rocks and the Main, you muft kecp no farther offing than ing or to Fa and no nearer the Shore than 5 or 6 Fa the beft is tokecp in 7 ands Fa. between both: Thicu thete is no Danger. If from Bimlequtam you will go without thefe Rocks, you mult come no nearer than 16 or 17 Fa. but the hef Deph to keep in is 20 Pa. and fo you will be fure to pals $=15$ off them, becaute near the Rocks the Current fers ftrongly off and on, fo that there is no Sccurity in bonrowing any thing near them.

Here by our Account ends the Conf of Coromandel, and the anticut Empire of the great $\operatorname{Mog}$ al; and here begins the Kingdom of Gollond, and the Country of Orixu, whole Coalt continues to the Mouth of the Ganges.

## Orixa, and of Golconda, to the Moutb or Entrance into ly called the River Hughely, e.vichfie of that River.

the Coalt of ces there may c no Factorics 11 or Point we ver, but with

## rall Variation,

 Courfe all the $r$ are there any or any Shoals ropen Rocks, any Harbours orth notice on ff of 'Pandy ; ings almoft cLs of Shore,varics \& Point lets ceen, and

There is inded a Land-Riffor Sand at both the falle Cape (Palmas) and the cruc; the firt is of no Contequence, having a good Depthover ir, and not ruming out fo tar as the other; but that at the truc Cape or Pome mutt be avoided by all means, for it is thoal and dry in fome places at low Water ; and befides coming too near, you will be obligd to fland of again E. by S. If you are bound to the N. about the Point, you mult come no nearer than to to 11 Fa. at lealt not with great Ships, the Soundings of the Shoal being very meven, efpecially in 7 to 8 Faddificring 2 or 3 Fa. at a Caft : 'Tis chercfore belt gong about the Point in $1_{2}$ to ${ }_{13}$ Fa. which you will find at abour ${ }_{2}$ Lsfrom the Shoal.

The next Station is fom the fimall Rivalet to the fimall Point, called the Falfe H 'int, which is called by the Natives Caregarat, or Carrogame. Here your Courle is E.N.E. for 12 miles; the Land is level, but cover'd with Trees and Bufhes, thll you come near the Point, and then the Trees make a ta dittance like a parcel of linall Itlands, by which the talfe Point is known. Kcep $=$ Ls Othing in 20 and 21 Fa loft Ground, that you may

> Fohert ber areat way ogether: Cabare Hill or Point we take to be fult; there is a fmall River, but with no Nabintion.
Na NE not above: a loont varying. Neither are there any
Truns or Trading-phacs of note on the Shore, or any Shoals
or Sands, Sca-Rilfs or Land-Riffs, funk Rocks or open Rocks,
that are confaderable in the whole Courle; no nor any Harbours
or blys. Rivers or Bughts, Inlets or Openings worth notice on
the Con!t, excopt a few Rocks above Water off of Pandy;
tur 'tes all an cuca Strand, the Depths and Offings almolt c-
qual, from $:=10 \quad 1$ and 15 Fa at from: $L$ to $=$ Lis off Shore,
and very , weh equal and alake all the way.
From Careparie to Manchepatam the Coaft varics 1 Point
to NE. by E. the dift. $: 1 . c$. Here the Land is lets even, and
more buy ing, as it's coarlcly calld, fo that it oughe to be flumn'd
mate of Wimats off Sea, there being no good Ground to an-
wer mhene, as is on all the reft of rhis Coaft. Allo on the
S fate the creck there lies a Shoal of Sand flretching oat in-
to the Sas maks, but there is \& la. Water upon it: you may
know the Place or iort by a :"ush, which youmay lec over
the lamd, whichorehmes as it it wound tall.
much the fame Courte NE. or Withn a Pome of the NE. one
Way or wher. There is no Place very remarkable on the
Coaft, or any thmg to be ubten'd tor the Suitor's Dircctions in
the faing by it.
There arekneral places bewcen. Which our Pilots indeed
that, fir to name, but do hetle more than name them ; as \%ean
G.mue?, or, as our Semmen call it, "ockuanat, Cameron, or the
Jirections given are only to the firf, $x:=$ to kecp the fame
()hane, of abour 3 miles, and yon tlall find the tame Depth,
Of $1=101 ;$ in In others, ita. the lat 4 , to keep 2 l.s
Offing $\quad$ - $0=1$ Fa.
There is a high white Pillar li' e a Maft at Matiopore, as
a Mark tw know the fand by, hut there are very few Sea-
marks any whone bituma the Const

Hill or Point we River, but with

Ifmall Variation, he Courfe all the her are there any re, or any Shoals s or open Rocks, or any Harbours worth notice on $r$ off of Paudy; Offing almolt c$0=$ Lis ofl Shore,

It varics : l'oint is Iets cven, and ght to be thum'd f Ground to allaft. Allo on the tretching out inon it : you may fou may lee over
: and gocs away ir a little, bur is of the NE. one markable on the or's Dirctions in
ur Pilots indecd cthem; as \%ecun Cameron, or the -, Aulipere. the In all thete the to keep the fame the lime Depth, 4, to kecp $=1 . \mathrm{s}$
at Ma lonare, as ic rery few Sea-
but that at the true Cape or Pome mult be avoided by all means, for it is thoal and dry in fome places at low Water : and befides coming too near, you will be oilliged to ftand oflagam E. by S. If you are bound to the $\mathbf{N}$. about the l'oint, you muit come no ncarer than 10 to :1 Fa, at lealt not with great Ships, the Soundings of the Shoal being very uneven, efpecially in 7 to SFadiffing 2 or 3 Fa.at a Caft: 'Tis therctore beft gomg about the Pome in: $210: 3$ Fa. wheh you will find at about ${ }_{2}$ Lstrom the Shoul.

The next Station is fom the finall Rivalet to the finall Point, alled the F'alfe Poont, which is called by the Natives Carregaran, or Carvogal re. Here your Courle is E.N.E. for 12 miles; the Land is level, but cover'd with Trees and Bufhes, fill you come near the Ponnt, and then the Trecs make a ta dithance like a parcel of limall Itlands, by which the talfe Pumt is known. Kccp $=$ Ls Otfing in 20 and 2 a Fa foft Ground, that you may keep withour the Fhats upon the Coaft.
 the Conrle N.E. but you mult lall N.E and by E. to avond the aforctad Sand of C.ape $\notin$ 'alminas : for comang near, you will be forced to ftandofle. by S: If you are bome about the Point, come no neser than 10 or a Fas with great Ships; for in $S$ and 7 Fa. are very uncven Soundngs, fometmes differing $1 \%$ or 2
 Fa. Clay Ground, which you will find at abour = Lsoffing. When you have doubled the Point, haul away N.W. by N. $z_{2}$ miles, and then N. a mall matter, and you will find the Tail of a Bank, on which is 9 or ${ }_{10} \mathrm{Fa}$. (Sand) for 2 or ; Cableslengeh; and then you will have again 13 or ${ }_{14}$ Fa. Clay, and 1 - and is Fa. Sand, mixt with fiall Stones. Then hau! away NW. or a little more wetterly : but if the Flond draws you to the Eaftward of the North, you will miis Ballafore. When you have lailed N.N.W. = or $;$ milics, you will ice a Shoal, on which the Sca Ueraks: Come no nearer it than $:=$ or $1_{4}$ Fa for it is ftep too. When you have this Shoal W. and by of W.S.W. then ftece N. fam $\%$ thly, and N N.W. from Ballafore, taking, great care to kecp your Lead going.

N B. Cape Pabmian as is in Lat. :2 d. 45 m

## Sailing Directions for the Rive

# Sailing Directiois for the Coaft of the Kingdom of 1 Hugeley, or Gans 

 Hether this or that Port or Road be in the Kingdom of Colconda, or of Bengal, is not our bufincts in our Diredions to the Sailors; but we are obliged to mention it, becaute Places of the lame Name are diftinguifhed by the Country where they ate fituated: I take Benath, as a Coalt, to lie from C'ape Palmiras, on the N. of the Count of Cilanid. and to extendonly to the Entrance into the Riser (i.lizes: where it reaches farther, we flall thow by it felf.

From the Poine of the Sand off of Cape Palmiras to the Ruser Biduffore, or to the Road before the River, taking crots the Bay, as the Ships ordinary fail, the Courfe is N . by W. or N.N.W. dift. about 13 to 14 L.s. Some have told us of another Shoal or Bank in this Courfe, viz. E. by S. from Cape Palnivar, dift $=8$ Ls; fo that by their Account it fhould be found in your flanding off from the Riffor Shoal of Cape Falfo, to go round that of Cope Palmiere, of to thand away to the S. Anrance of the River Aluscley: others lay there is no fuch Sand as all.

Which ever of thele be rigit. one may be affured the Ground has been cunctully tounded all the way on both fides the Sand of 'Palmeras, and for $\mathrm{z}^{\circ} \mathrm{IS}$ off the Point of it; and no fuch Sand has becn found, or any Shoal or Bank, but gradual Soundmge from-Fa. on to the Sand-chere, andto 18, and on to 30 Fa. in the Offing.

However, the vigilant Mariner, if he is in the Ieaft doubrfit, will be fure to kecp the Lead conttantly going, for his better Sarisfaction, all the way, while he is rounding the faid Sand, as alfor when he is Coafturg at a diftance.

In going from P'almuras to Biallafiore you mun be carcful to obfervethe Tides; for your Courtie may alter a Point or two, as you fall with the ! lood or againtt the Ebb: If with the Howd. wheh fers ftrong into the Bay, you will go with the Stream of the Tide N. by W. as above; but if upon the Ebb, you will bear into the Bay a Point or two, that you may have command of your Couric, and not be pur by the Road of Ballyore.

The Road of Ballafore is at leaft ${ }_{3}$ to $4_{4}$ L.s off from the Mouth of the River: for the Shore being flat off, you have Water no farther in for a great Ship; and at that dift. you anchor in no more than 5 la. The River is barrd, and you camor go in with great Ships; there is but ; Fa. Without the Bure and but a above a L. oft: Ballafore lies m=1. 16. N. Lat. there 15 an Smghth Factory here: from hence to the W. fide of the: Shoatiof iluscley the Courte is E. by N. cafterly.
From the dry Sund above-nam'd to \%'tply the Courfe is due A. the dit. 17 Ls : but you mutl have a little refipect to the Tides in this Courte allio, as above; for if you go with the Whb, youmuf so more to the W. but come no nearer the Bay
fofs, then ) the Depth lafore Roa blow hard (1)utc Fa Port, havi out, but 11 the Paffag good anch venture, th
N.B. Obferv: is prop I. In the is the Tama lecond Res W. Point bcaring N .
N. B. houtes ried th
2. The long, mak of the Riv
3. In an and Chang
4. Day makes hish the outcrin
5. Day in the gre and the $L$ River's M
6. The as high as Flood in th E.N.E. the
7. In th and down, Foot, :mid
8. Ther outcr Brac
$N .1$. $\mathrm{cr} \mathrm{Ed}_{3}$
All the the Road S.W. and youd 小"p

## Kingdom of Bengal, to the Entrance of the Rizer eley, or Ganges.

ingdom is in our to men-diftinкс $B$ col N. of the into the y it felf. $s$ to the ng crols y W. or of anom Cape ould be re Fialfo, o the $S$. ch Sand

Ground he Sand no fuch 1 Sound$\mathrm{O}_{3} \mathrm{~F} \mathrm{Fa}$. $t$ doubrfor his the faid
arcful to or two, with the with the the Ebb, nay have of Bal.
from the ou have hilt. you and you hout the . N. Lat. $V$. fide of
to is duc ct to the with the the Bay
foft, then younced net fear the Sand upon that Point. Thence the Deph will thoal upon you gradually till you anchor in Ba alafore Road, where you may ride in 6 Fa . Or if the Winds blow hard cafterly, take more Depth of Water. 'Pipley is a Dutch Factory, and lies at a dift. up the River: Tis a barr'd Port, having indeed a double Bar, to the great Ships ride without, but not to far offas at Ballafione; for on the E. fide of the Paffage over the Bar, about a miles from the Bar, there is good anchongs in s Fi. if you are in a fimall Veffel that may venture, there are 'Dutch S'ilots to carry you in.
N.B. Here, in order to what follows, take fome necdfu! Obfervations of the Tides and Ground in this part whin is properly called the Bay.

1. In the Road of Rallifore your Nark fo: the b.ft Grem! is the Tamarin Trese, which ftand on the Starboard fide of the fecond Reach in the Riser, bearing N.N.W. from you; or the
 bearing N. Thete Marks make the full Extent of the Road.
N'.B. Bankfal Porut is known by an Emg Lill) Set of Warehoufes bult upon it, and a Datcobnacie's Tomb who lies buried there.
2. The Full and Change of the Moon, Day to $\frac{+}{2}$ Hours long, makes full Sca off of Pipher, the Trecs on the W. Point of the River beang N.W. by N. from you.
3. In an Offing of 6 Fa, at low Water, 9 Hours : Day, Full and Change makes hugh Water of $P$ Piples.
4. Day 9 Hours, 45 Min the full and Chage of the Moon makes hish Water at the Foot of the Weftermot Braic, called the outcrinot Brace in the Mouth of Hu ed l y .
5. Day Full, 12 Hours, makes High Water Fuill and Chans in the grear Swatila between the Shathing; of the fiamotion
 River's Mouth.
6. The firt Qmarter Flood from the Road of Fallufor, and as high as hidyare, lits due N with great Force; the halt Flood in the famie Situation N.E. and the firft of the laft Quarter E.N.E the Fbb juft the Reverte.
7. In the tame Situation the Springs rife :o Font right up and down, Neap.Tides 6 Foot, ofll of ${ }^{2}$ ipley 11 Foot and 7 Fout, and on the outer brace 12 Foot and 8 foot.
8 . There is no lets than 13 to 1 foot Water up n the faid outcr Brace.
N. 1 P. In the middle of it 'tis ; Foot deper thanar the outer Edge, either going on or off.
All thece thins's lemg daly confider'd, you may weigh from the Road of Ballafore upon the tint of the Flool. II ind at S.W. and flece due E. 9 Ls which will carry youhali a I. beyond ${ }^{2}$ phen, and $2+$ Ls thor of the Bracis.

omerictre mides ; ior your come maty atec a romt or two, as you lail with the Hlood or againt the Ebb: If with the lluod, which fets ftrong into the Bay, you will go with the Stream of the Tide N. by W. as above; but if upon the Ebb, you will bear into the Bay a l'oint or two, that you may have command of your Coutle, and not be put by the Road of Ballyere.

The Road of Ballafore is at leaft 3 to 4 Ls off from the Mouth of the River : for the Shore being tlat off, you have Water no farther in for a great Ship; and at that dift. you anchor in no more than 5 lia. The River is barrd, and you cannot go in with great Ships; there is but $; \mathrm{Fa}$. without the Bar, and but + above a L. off: Ballafore hes in 21. 16. N. Lat. there is an EKglifh Factory here: from hence to the W. fide of the Shoais of Itugeley the Courle is E. by N. cafterly.
from the dry Sand above-nam'd to Yipley the Courfe is due N. the dit. in I.s: but you mult have a little relpect to the Tides in this Courfe alfo, as above; for if you go with the Ebb, youmuft go more to the W'. but come no nearer the Bay than 7 tog lia.

To bill from Ballefore to Pipley the Courle is E.N.E. 20 miles; you may keep abong, Shore in 5 and 6 Fa. according to the Burden of your Ship: Youmay know Pipley by a Pagode, ftanding on the W. fide of the River; near to which ftand : or : great Trees whichalmoft cover ir, fo that it is hard tometimes to fee it. There flands aifo a Flag-faff, and when you have that N.W. and N.N.W. in 5,6 , or 7 Fa, then youare in the Road : but coming from the Weftward alons the Shore, you mult have a care of the Wrefl Bank, which tails out at leaft 4 males ro featrard, upon which there is but 3 and ${ }_{4} \mathrm{Fa}$. Water. Then is the Flag-fatl N.N.W. fo that you mult kecp a little t.inther out.

When you luff in for the Bay of B.'Mat about C.ape Palmi2,2 , as fion as you have had (iround be fure bear off, keepm: your lead conftatly gomg, cne Calt hard and the other

5:19ay in the gre and the $L$ River's M
6. The as high as Flood in th E.N.E. the 7. In th and down, Foor, and

8 . Ther outer Brac N. B. 1 cr Ed
All the the Road S.W. and I yond $P t p$

Notc, It S. 25 milc was loft: there bcins the Wreck cannot be fear of the

From th W, and Tide, anc youmay fa flows 120 21d. 16 m

From tl but you in

## Sailing Diretions for the Entrance into, and failin from the Road of Ballafore, and of Pipley, and feicral Chamels, or fo many of them as bave been



He River Ganges, commonly called by our Sailors the Rever Mageley, as it is the moft frequented by Fitropear Shps, and is now made the Centre of their Commeree forthe whole Kingdom of Beugal, it is requifite the Dircctions for tailing into and out of it hou'd be the more particular; clipecially,
:. Becaute it is a River of the moft difficult Entrance for a Stranger, bas the greateft Varicty of Channels, and is the moft blocks up with innumerable Sands and Shoals of any River inthis pare of the World.
2. Becunte notwithitanding this, it has been furveyed and lounded whth the utmont Exactucts, and divers fafe and good

Channels that ute ti which arc being gen miles of Braces an much mo: arc recko
3. Beca frequente fy to be h their whil
or two, with the with the he Ebb, by have of Bal. rom the out have lift. you and you hour the N. Lat. . fidge of
fe is due to the with the the Bay

NAE. 20 ding to Pagoda, stand rd tome. hen you re in the re, you it leaf 4 - Water. a little

## Salmi-

 ff, keephe other5. Day rum, 12 fours, mace ragi water fur amocmang
in the great Swatch between the Shoaling of the fiaraliain and the Long Sand, ether towards Cock's Slum, or Kcifait River's Mouth.
6. The first Quarter Flood from the Road of Ballafore, and as high as Krdsare, fits due N. with great Force; the balt Flood in the fame Situation N.E. and the fart of the lat Quarter E.N.E. the Ebb jut the Reverie.
7. In the fame Situation the Springs rife :o Font right up and down, Neap-Tides 6 Foot, off of Pipley is Foot and 7 Foot, and on the outer Brace 12 Foot and 8 foot.

8 . There is no lets than $I_{3} \frac{1}{2}$ to $I_{4}$ Foot Water upon the fid outer Brace.
$N$. B. In the middle of it 'ti $\frac{-}{2}$ Foot deeper than at the outer Edge, either going on or off.
All thetic things being duly confider'd, you may weigh from the Road of Ballafore upon the tirft of the Flood, Wind at S.W. andfteer due E. $9^{\frac{1}{2}}$ Ls which will carry you half a L. begond ripley, and $2 \div$ Ls hort of the Brace.

Note, It has been reported, that froml'oint Palminas E. by S. 25 miles in the Sea, on the Bank mentioned before, a Ship was loft: but others question the truth of it, as they do of there being fuch a Sand there, Search having alto been made for the Wreck as well as the Sand, but not found: however, it cannot be mils, as 1 laid above, to keep the Lead going, for fear of the wort.

From the dry Sand Bank to Ballafore the Courfe is N. and by W. and N.N.W. about 12 or 14 Ls; but you mut mind the Tide, and Shape your Courle according to the Ebb or Flood: you may fail in from 6 to 4 Fa as your Veffel requires. Here it flows 12 or $1 ;$ Foot right up and down: Ballajore lies in Lat. 21 d .16 m.

From the dry Sand to 'Ripley', the Courfe is $\mathbf{N}$. about $i_{j} \mathrm{Ls}$; but you mut have respect to the Tides.
into, and failing up the River Hugely, especially Pipley, and likeroife out of the Jaid River by the $m$ as have been dificier'd and Surveyed.
ir Sailors cited by e of their $l$, it is reout of it
ne for a 1 is the any Ri-
eyed and and good

Channels difcover'd and mark'd out; fo that the greateft Ships, that ute the Ind ut Trade may lad up to the farthest parts of , which are practicable, or which the Commerce requires; there being generally 5 to 7 Fa . Water in thole Channels whin ate w miles of Hugely' it felt, which if from the Entrance of the Braces and other Channels at late iso Eur? mon es, and much more, if the Reaches and Tumitas of the had Chads are reckon'd in.
3. Because tho 'is a River of very and Duel', and mast frequented by our Ships, yet we do not find ar Pihoriare eafy to be had, or that there is Buffets enow to make it wow n their while to be alwaysattendngit.
Supposing

## Sailing Dircitions for the $R$

Suppofng then a lim recan Ship bound into Ihecley is lyirg at Ratisp, or in P'ipley Rod, wating tor a Wind; it is readfal to give fome general lnftractions for their getting into tic Chamel of that River, that part being dmoft as difficult as athe reft : If the Ship lies in 6 F.a at low Water. Iet them Wigh at the fifl of the Flood, and go anay due E. of $\frac{1}{2}$ Ls. This Courfe will carry them half a Lboyond 'pply, being : : 1.s thort of the outcrmof Brace, when the Trees on the Starbard fide of Paty Ried mentiond before will bear N.W. by N. Thace Ict then anchor in 7, to F a at hinh Water.
N. B. There they are fure of 6 F. at low Water, and they muth ancher here to wait for the next Day's Blood, to carry thom over the Braces.
Bue if the Wind chances to blow more out of the Sca, that is, any where to the S. or near is, they may fleer from Bat. fone with the find of the llood E. by S. or F.S.E to the tame Station as before: the Reaton is, becmic otherwite the Flood Thide and Ouc- Wind will lo: te then up too near the Shore.
$\therefore$ A. The diflance thomethey the ()nter Prate as above, ts me atowe 5 I. ; and this makes the Riding there necelhiny, becaufe 'the not convenicnt on any Account to anchor near the Pirace in the Night, Iefl by the tharpnefs of the Currene and the fliftiets of the (iale they thould over-mun thear fageth, and come upon the Braces out of tme.
For this Realon let them kep the Lead carctully going, till they are $;$ Lis to the caltward of the Road of Rallafore ; then take exat notice of the Sand upon thair Lead: When the Risor of yifter bears dac $N$. there will be a fine light brown Sand withont fail for three or four Cifts, then Oure azan ; then Ict then anchor ; unly to as to beftece of ota. depthat Dawater
$\because f$. Tho there is not Ids than $1 ;$ to 14 Foot Water upon the Edge of the Brace, yet mbouing Weather the Sca ruas very high there, and fomenmes is all on a Bracl: ; the that if the Ship draw decp, and the Wind Wows hard, they ou hit not to fle to whigh thll wo Hours Flood: Then weth an calf fanl they may flecr away E . by S till they fime by ther I.cad they are upon the Brate it thi: Thenke them crowd all the Sall they can make, t.ll they are orer, and conted into the fint Channel, calld the Jimath 'äratch.
$\therefore r$. The Small Suatch is a narrow Channel between the

As fom as they find themfelves cntred, and in fote Ground, they wilh have 5 to 5 : Pa. Water: Then Iet them fteer E. by No and ENB. to pals the fecond Prace, and get moto the Cimat Swath ; and being adranced about 2 I.stlicre, and the Tude fene or the Ebb maius, then let them anchor, which they may do very tecurely, to as to have 4 , to 5 Fa, at low Water, an! (i) le ready to - on again with the next Flood

Thas beng a very mec and difficite Couric, the following Oikeratims may be added, and thould be regarded caretully:

Süats
arc as fol
As for bye to c.lled th yard or I. In dificoner Water, the fate it happe betore t halt ac there an
$\therefore B$
t)
2. Su

Had o betore the Tide by E. an or that $t$ an Umb Itcer N on your c.ury y to takc 4 Miles the Kit of Trec of the 1
3. O quarter foreas l the Sho you have wards Cozicoll
4. T1 S. fron. that Hc Loung $S$ twixt th low wa row and thro', you, ot Sumbった (stiph and to 1 usfactio

This Pilnt

## Tions for the River Hugeley.

ley is ly. ind; it is tring into ; dillicult Ict them E. $9 \frac{1}{2} \mathrm{Ls}$ boing: the starN.W. by ater.
atcr, and ys Hood,

Sc., that from Ba .. , the lame the Hood hore.
, as above. cre necelto anchor cts of the lover-fun me.
gring, till ne: then en the Richt brown tre asam : - dopth at
por Watcr cather the all on a the Wind wo Hours way E. the Bricke can makc, nel, calld
twect the
fit Ground, (I) fecr E. minto the c, and the Which they ow Water,
following carefilly:

Süatch is part of the main Chand) the fasther Ducctions are as follow

As foon as curted the Swatch, flecr away E.N.E. and N.E. by E. to avoid the dry End of that dangerons Sand jut named, called the Low Simd, Lecping a Manalways upon your Forcyard or Bow-dprit to look out for the Breakers.

1. In cafe you happen to be any thing near them before you ditiover them, wheh you may perecte by having decper Water, you muff fteer off for a whele to the northward: But the tafelt way is to range the Barabullo in 5 Fa. Water ; and if it happens that the Wind being flacker, or the Night come on betore the Flood be licut, you molt haul up E. and E. by S. for halt a Glats's tume, mito of or 6 Ifa. Water, foti Ouze, and there anchor to meet the next Day's Flood.
$\therefore B$. Hercabouts there is no tailing by night in great Ships tho with the mott expericne's Pllot.
2. Suppofing you cannot get for far as to be a-breast with the Head of the Buarabullo. yout may with the firf of the Flood, betore the Tide makes firong up, or that your Ship winds to the Tade, get up your Anchor, and continuc your Courle N.E. by E. and Ne. until the N. and of the Segar bears E. by N. or that the Baraballlo Ticic on the W. Shore (which makes like an Umbrclia (jpread open) bears N.W. Thence you ought to Hecr N. and N.by W. Iearine the Breakers of the Biatabullo on your wettern fide at leath :of a Mike: And this Courfe will carry you to the Mouth of Kidgac River. You ought allo to take notice that the Breakers of the Barabullo he abone 4 Niiles off the wettern shore, and bear S.E. and N.W. with the Kithelithe or "Wibrella Tirce, and N . and S. with the Grove of Trees calld the $L$ Long $/$ ood, which thands to the wettward of the Entrance of Kidgar Piver.
;. Ofl of the E. Point of hadikare River runs a Fher, a full quarter of a Linto the Offing, which is itcep too ; and therefore as foon as the Ruver is open, you ought not to come nearer the Shore on that fute than within; of a $L$ at leall : But when youh have patt the River's Mouth, you may edge manan towands the Shore il. Betore you come up with the River of Cowichlle, you may not be mone than a Mhle off the Shore.
3. The Head or N. endof the Long Sand lics a Miles E. by S. from, the Mouth of the fiad Ruer Cozecolle; and between that Head and the Shore lies the Patfaye, but clofe aboard the Loung Sand; for that of late a Bank of Sand is hove up betwixt whe Longs Sand and the Ruser's Month, which is dry at low Watcr upon the Springs, and renders the Paflage both narrow and dangerous; fo that betore a Velficl of burden sentures thro', it will be requifite to onder your Shallops io attend you, one of which to anchor upon the Pitch of the Long Sand-bead, and one of the Ship's Boats to be placed at. a (araphing on the E. Edge of the faud (larcly hove up) Bank; and to the Ship at half Flocd may pats berween them with Saustaction, knowing the Depth to be liefficient.

This is one way to go tafely thro' tho you floould get no Pilot; the other is thus: Supeffug 1 ueat Shipm have ne-
by S till the find by their Lad they are upon the lirace it telt: Then let them crowd all the Sal they can make, wht they are over, and catred into the fift Channel, calld the Simall Suatele.
$\lambda R$. The S:matl $S$ watals is a narrow Channel between the two Riracos.
As ison as they find themfelves cutred, and in toit Ground, they whilhare ; to ; W. Water: Then lee them feer E: by N. andE N.E. on pats the fecond Prace, and get into the (imet Soudth; and being adranced about = Isthere, and the Tidefont, or the Ebbmade, then let them anchor, which they may do very fecurcly, to as to have + , to 5 Fa at low Water, ant to be ready to so on agan with the next tlood.

This being a very mee and dificalt Courle, the following Obtervations may be added. and thould be regarded caretilly:

1. That if you weigh from i'ples Tra at wo Hours Illood, the E by S. Coaft will carry yon dircatly to cuter the $/ 1$ ist firere, at $3^{\frac{1}{3}}$ Ls datance from the nearelt Land, bearing $\therefore \therefore W$ or thereabout ; and theretore that is the beft Offing.
$=$ V'ex thould not coter upon the brace in Iels than; l.s frem the Shore, beand you will elfo have; foot lets Water, ard becane it the Whad hapen to blow mote out from the Sca than S.SW. Wath the Flocu, you will be ket into the Buhte, and not be abie to weather sali Rivar Point, and to mavoidably lof your Paffige.
;- Normath yougobeyond + Ls danace, becmife you cannot be heure in darkWeather, tho you may have Water chough upon the biace, that you ihall not be cmbay'd, when you ane pals'd it, with the Preaskers on the other fide of the Simatl Soutth, (when is what they call the W. fide of the Sca Rall) or with the dry pate of the S. end of another Sand calld the
 This $I$ ones $\begin{aligned} & \text { atal } \\ & \text { is a dreadtul phace ; 'tis Ilecp too, and lics }\end{aligned}$ very near the Sca-Rill.
N. B. The Long Sala or Th, Pawlies F..S.E. and W.S.W. withace S. Point of the lladidtate, and right up and down the Stream, dhance fom the Shore near + I.s.
Youmuth by mons comencarer this Sand than to - Fa for 'is to thep. eqpecially out that fide next you, that at one Catt
 upon it ; and having once firuck therc's no getting off agam, but you will be inevitably loit.
2. When you have palide the firt fiace, and got into the
 hat E , and you will find loft ground ; to that youmay be fire, by Sllowing the Courli drectad above, you thall not fat to lat the Edge of the Datace, and pats well over. Asfoon as you hate get hato the Givat Siatath, the So: Race Tree, and a white hady Down to the W. of it, in illear NW. by Nemyou.
thing netel all the thang by way of Precaution, and Bab wate the main Channe of the Rever (for this Givat

Coviolli,

+ The S. from th that Head Loti! Scin! twixt the low Wate row and thro', it 1 you, one jami-bsiad Croppling and to this tisfaction,

This is Pilot; th ver a Sholl way, tho Nlike and than the $I$ you muft Watcr, at in 5 and 4 you cugc choal you Sand; bu of it, wh 1hack Tide 5. Sol find $1 \subset \mathrm{~F}:$ wofternS the l'cak that hes and halt fude of 18 that enco

Soloo put over Tide of hold of and cond patling a fianty or as the ca thetloor s.

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Ground, flect E. no the and the ich they - Water,
llowing retilly: rs Hood, he $/ f i$ bcaring Offing,
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you canchough you are ic Simatl (c.1 $\left.\mathrm{R} 1 \|^{\prime}\right)$ call'd the Suatac\% and lics
W.S.W. up and $+1.5$.
, Fa. for one Catt 2, be tatt pll agam, ato the illbar N . (1) may be thall not
atch, the W. of it, tion, and us Cicat

Cuvintli, you may not be moic than a Mile off the Shore.
4. The Head or N end ot the Long Sand lics 2 Miles E. by S. from the Mouth of the faid Raver Cowicolle; and betwecn that Head and the Store lies the Parfase, but clote aboard the Loy, Samd ; for that of hate a Bank of Sand is hove up betwixt the Long Said and the River's Month, which is ary at low Water ugon the Springe, andrenterstic Paflage both narrow and dangerous; fo that betore a Velicl of burden ventures thro', it will be requifite to onder your Shallops to atemal you, one of wheli to anchor upon the Pitch of the Longe Sambobat, and one of the Shy's Boats to be placed at a Graphing on the E. Edge of the liad (lately hove up) Bhak ; and th the Ship at hati floodmay pats between them with Satisfaction, knowing the Depth to be fiaficicut.

This is one way to go lately thro' tho you fhould get no Pilot; the other is thus : Suppoling a pocat Ship to have never a Shallop to attend hoct, (indecd lake it to be far the lafett way, tho fhe hat one) let the Ship flay at an anchor about a Mhe and a halt thort of Coweolde Rewer until: Ebb, at which time the Lons's Sand wall difoover it telf, being dry at that time; you muit order it fo as to be under lad betore it be quite low Watcr, and range the dry Hoad of the Long Sand lar aboand, in 5 and $4^{\frac{1}{2}}$ Fa. Water, ilay kecp that depth at lealt ; fur it you chere off to the thorewards hat a Cable's Iength, you will thoal your Water to ; Fa. on the lidge of the atorelad new Sand; but the Long Sand-biad has Water cnough clote aboard of it, where it lics highett and dricts, and at the 'lime of a flack Tade has no danger, provided you mind your Steernge
5. So toon as you have patt the Lonis Samiolicid, you will find 10 F : Water ; then youmuth immednaty haul in for the weftern Shore towards 人aderere River, that to yonmay avoid the P'ak of the Mison, which is that part of the Sand that hes open with the taid River's Mouth, about a thort Male and half in the ofing, and which is wery flecp on the $S W$. fide of it, lying E. by N. and W. by S. with the great Trecs


So loon as you lide the abovelaid Trecs W.S.W. from you. put over immedately fire the caftern Shore, flecring wath the Tide of Flood under Foot E.N.E. or R.by N. until you get hold of the MMw or MAzct, which wall he a Weather Sand, and conduct you whth all Scarity over the caltern Shore, only pafting alongly it with Diferction, accordmes as the Wind is leanty or large : Your Courte being not fo much to be minded, as the carctill ctemen or off from the had Sand, which with thetiood has no dinger on this fide of it, only when (i, !ldi:s bien Ruce lears N. halt E. to N. by W.

Thus Sand has but little Water on it at low Water ; it thoals wery graduilly, fo that youmay cdge ofll from it as Occafion may requare, and alway be able to fecth clote under the caftern bhore, at leaft a Nile and half, betore you come up ow Yeflow River, tormerly call'd the (hamel Cicek: For this hatt Your, as the N.L. Point of the $M$ Iたe is much wom away, to He


IMAGE EVALUATION TEST TARGET (MT-3)




Photographic Sciences
Corporation

## Sailing Directions for the

the (illlingati San.!, which formerly reach'd no lower than Foflare River, is now to increas'd, that it comes down as far as the frall Creck next to Kidgare River, and has rendred the Chamel fo very narrow, that with the Flood on the Mizcn it would be impolfible for you to keer in the Channel. or prevent being hors'd upon the Gillingan siad, whence there will be no secting off with the Flood; and befides the danger, you will find Difficulty cnough to get off with the firft of the Ebb.
6. From above a Mile and half below \%ffore River the Channel lics clofe aboard of the Main, between the caftern Shore and the Gillingam Sand, and has no danger at all with the Hlood, provided you be not fpew'd off from it, for it muft not be left until you have patt the River of Rongufould, which lies in the Bight about half way between fellore Rivor and the River of Culpe: And then fo foon as you have patt Rourufoula River, you will have the Middle of the Grove on Bu/falow Point bar N.N.W. from you, and you ought to ftand over for it, and anchor there, for on the N.E. fide there is good riding in $5 \frac{1}{2}$ or 6 Fa. in the S.W. Monffon, if you have no Inclination to venture your Ship any higher up ; but if you are retolved for the River of Hugeliy, then only ftop at the Point for the next Day's low Water, that fo weighing with the firft of the Tide, you may be fure of Flood enough from thence to enter the River of Hugcle $y$ with, and not be obliged to let go your Anchor in the Narrows, where there is deep Water, and an exceffive Tide to flrain your Cable.
7. To fail from Buffalow Point upwards, it is neceffary to range the eaftern Shore far aboard, to avoid the Point of the Yiunnoud Sand, which lies within a Cable's length of a fmall Creck on the faid Shore, and is not to be come nearer to than ${ }_{7} \mathrm{Fa}$. As foon as you have pait the taid Creek, you muft trim tharp, and haul up N.W. by W. for the lower Point of the Narrow's on the fouthern Shore; which faid S. Shore with the S. wefterly Winds, it will be neceffary to range, until you begin to open Hugcley River, and then put directly in N.N.li. having a care of the eaftern Point of the faid River, and of the Eddies which commonly at halt Tide are very troublefome thereabouts, by reafon of the Divifion of the Stream into that and the River of Tunberlee.
'I) ivections for carving up great Sbips from Ballafore Road into the Ricior of Hugcley, thro' the new Teeps, provided they bave no lejs than too Sballops to attend them.

1 know it is very difficule to perfuade Men to any new Undertaking: And as often as it has been propoled by Men of Skill as the lafelt way to carry European Ships of the greateft burden this way into the River Ile'geley, it has been objected that it was a thing had never been done, and that the Entrance into the Decps lay to far from the fight of Land, that it would be hard to place any Buoys on the outer Heads of the Sands, to guide them in: Tho fome skilful Pilots think that the Opinon of thofe Men proceeds chicfly from their unwillingnets to leave fight of the Land among to many Difficultics, as alfo from then not knowing the true Pofition and Shoaling of the

## ations for the Rizer Hugeley.

no lower than ics down as far has rendred the on the Mizch it ancl. or prevent there will be no langer, you will the Ebb.
Pore River the en the caftern ger at all with mit , for it muft of Rongufouln, een \%eflore Ri on as you: have He of the Grove and you ought n the N.E. fide Monflon, if you higher up ; but then only ftop hat fo wcighing f Flood cnough ith, and not be where there is pur Cable.
$t$ is neceffary to the Point of the ingth of a fmall te uearcr to than reck, you muft lower Point of in faid S. Shore ry to range, unn put dircctly in f the faid River, t Tide are very Divifion of the

## n Ballafore Road

 Decps, provided nd thcm., any new Undery Mcn of Skill as c greateft burden objected that it he Entrance into that it would be of the Sands, to uink that the Opicir unwillingucts ifficulties, as alfo Shoaling of the
4. When the two Shallops are join'd, and day light prci fents, Iet them both weigh, and according to the Tides under foor, ftand thwart the $S$ watch, the iuncrmoft Sounding ii about ${ }_{7} \mathrm{Fa}$. and the outermoft in 9 , until the mnermoft finds hard Ground upon the Edge of the caftern part of the Sea-Riff: And then let that Shallop endeavour to round the S. cnd of it, without coming into foft Ground, whilft the outermoft Shallop finds her felf in about io Fa but no leff, and until the innerrnoft makes Signals that fhe has rounded the S. end of the Sand, and finding foft Ground, tacks again to come to an anchor upon the Sand; which when fhe has done, the outermoft ray come to an anchor in in Fa. N. and S. from it.
5. Theic Shallops being thus pofted, will have the Entrance into the new depeths fufficiently open, fo that the Ship has nothing to do but to bear up to the outcrmoft of them, and then ftand in to the northward; the that was upon the Head of the Sand, always kecping upon her Larboard Bow, along the Edge of the Sand, in at Icalt 4 Fa. be is what time of the Tide it will; and the other Shallop upon his Starboard Bow at fich a diftance, that they may make Signs to the Ship what depth of Water fle has, as alito if the thould meer with any landy Ground upon the Edge of the Sagor Sioal.
6. The Entrance in this Channel calld the Nev Decp, which is bounded on the W. fide by the caftern part of the SeaRiff, and on the E. fide by the Sarcor Sand, lies 12 Ls from the Ifland Sagor: The Claannel ftrecthes neareft N. and S. and has ${ }_{12}$ Fa. at the Entrance into it; it is 6 Ls over from Sand to Sand; fo that you may expect to be in 5 Fa. at low Water foit Clay, before you can expect to fee the Illand from the Forcyard in fair Wcather ; and until you come into $4 \frac{4}{4}$ at low Water, you will hardly be able to fee it on the Deck: But let not this ftartle you, for the Channel thereabouts is 3 Ls and half broad at Icaft foft Ground ; and tho you nult expect no more, yet you will find no lefs betwixt that and the Sagor, provided always that you leave the fouthermoft end of the illand a L upon your Starboard-fide : And when the faid Point bears E. from you at that diftance, let one of the Shallops kecp between the Ship and the Sca, and keep Cafpel and Long Sand to the weftward Offing, and the other upon the Seaboard betwecn you and the fimall Middle Ground, until you get up as high as Cox's I/luyd ; and there if the Night draw on, or the Flood be almoft fipent, lite them anchor till the next day abreaft with the Body of the Ifland, in 7 to 8 Fa.
7. When the acxt Day's Flood prelients, let them weigh from Co.o's Ifland at the firtt Quarter's Flood, and ftecr N. or N. half W. Kceping the Loug Siaid aboard, until they get over within a Mile of the other Shore, and abour half a Midie floore of the lower Point of Kidgare River, and thence proceed as has becn already directed, in the Inttructions for great Vellels that came thro' the Middle Channel.
If Ships of great burden were thus friolly attended with two Shallops, I dare affirm there is much lets danger in entring the River thro' the New 'Deptos than over the Braces; nor need they far ever coming into lefs than ${ }_{4}$ Fa. at low Water upon the Springs; only if the Night or want of Wind happens, it
'Diections for carrying up great Ships from Ballafore Road iuto the Riter of Hugcley, thro' the new Toeeps, provided thry bave no lefs than two shallops to attend them.

1 know it is very difficult to perfuade Men to any new Undertaking: And as often as it has been propoted by Men of Skill as the tatett way to carry European Ships of the greateft burden this way into the River Ifugetey, it has been objected that it was a thing, had never becu done, and that the Entrance into the Decps lay fo far from the fight of Land, that it would be hard to place any Buoys on the outer Heads of the Sands, in guide them in : Tho lome skilful Pilots think that the Opinion of thofe Men proceeds chicfly from their unwillingnefs to leave fight of the Land among to many Difficultics, as allo trom ther not knowing the truc Pofition and Shoaling of the outer Sands; for otherwife, having two Shallops to a Ship, there camot be any ablelute Neceffity of Buoys, or any great Difficuity, much lefs Danger, in carrying of Ships that way : The mamer we may fuppofe to be thus.
I. Let the Ship and two Shallops kcep company to $P$ Pipley Roid, I mean to the formentioned place of anchoring, $2 \mathrm{Ls} \frac{1}{2}$ to the caftward of Pipley, as in the former Directions for Ships that were to have gene over the braces; and there the Ship coming to an anchor, let the Staillops ftecr E.S.E half S. until they get the Soundings of the weftern Brace, then let one of them kec ; along the W . fide, until he gets to the fouthward cnd of ir, and the other kecp a-breaft of his Companion, but father off in 8 Fa. foft Ground : then Ict them both anchor, tiic onc upon the very S. Pitch of the lirace in $4 \frac{1}{3}$ or 5 Fa. findy Ground, and the other E. from them, in 8 or 9 Fa. Ouze; and there both itay till the Ship comes to them, or broad fide with and between them.
2. The next Morning, whether Ebb or Flood, the Ship may weigh and ftecr to find our the Shallops, with the Ebb L.S.E. and with the Flood S.E. by E. but to as never to come at Icts than ida at low Water, in whatever depth the Shallops may lie.

3 . As the flecrstowards the outerm of Shallop, the innermoit, which anchored at the S . end of the Brace, ought to make all poifibie hafte to get the Sounding of the weftermoft pant of the S. end of the Sea-Riff, and ftand along the end of it, in ; and half and 6 Fa. wutil he finds he is paft the firt Branch of it, and got into foft Ground: Let bim then tack, and ftand b,eck into hard Ground, and there anchor in 6 Fa. Whilft this is duing, the other Shallop may kcep a Mite or two a-hcad of the Slip in foft Ground, io Fa. and when they are a-breaft of the Shallop that rides upon the Head of the weftern part of the Sca Riff, Iet the Ship anchor, and difpatch that Shallop to her Companion for ber farther procecding:
nif Tiue are very c Divifion of the
om Ballafore Road $\checkmark 7$ ecps, provided tend them.
to any new Underby Men of Skill as the greateft burden in objected that it the Entrance into , that it would be $s$ of the Sands, in think that the Opiheir unwillingnefs Difficultics, as allo ad Shoaling of the hallops to a Ship, loys, or any great $f$ Ships that way :
ompany to Pipley anchoring, 2 Ls $\frac{1}{2}$ ircctions for Ships and there the Ship E.S.E half S. until ce, then let one of to the fouthward $s$ Companion, but hem both anchor, $\mathrm{cc}_{\mathrm{c}}$ in $+\frac{1}{-}$ or 5 Fa . m , in S or 9 Fa . comes to them,

Flood, the Ship ps, with the Ebb as never to come depth the Shal-
allop, the inner: Brace, ought to of the weftermoft long the end of it, aft the firft Branch in rack, and ftand 6 Fa. Whillt this or two a-head of icy are a-breaft of c weftern part of in that Shallop to
from you at that diftance, lee one of the Shallops kecp between the Ship and the Sea, and kecp Cafpel and Long Sand to the weftward Offing, and the other upon the Scaboard between you and the fimall Middle Ground, until you get up as high as Cox's I/land; and there if the Night draw on, or the Flood be almoilt fipent, let them anchor till the next day abreaft with the Body of the Ifland, in 7 to 8 Fa .
7. When the next Day's Flood prcients, Ict them weigh from Cox's Iflant at the firlt Quarter's Flood, and ftecr N. or N. half W. kecping the Long Siaid aboard, until they get over within a Mile of the other Shore, and about half a Mile flore of the lower Point of Kidgare River, and thence proceed as has been already directed, in the Iuttructions for great Veffels that came thro' the Middte C'Jannel.

If Ships of great burden were thus frictly attended with two Shallops, I dare affirm there is much lefs danger in entring the River thro' the New Deptlos than over the Braces; nor need they fear ever coming into Icfs than 4 Fa . at low Water upon the Springs ; only if the Night or want of Wind happens, it may occafion their anchoring when they come a little chort of the Sagor, or between the Imall Middle Giromand and the Long Sand, which cannot befaid of cither of the other Entrances in to the River.

Take alfo the following Directions to go up along the weftern Shore.

Being come up as high as Gillingam, be fure you mird to give the upper Point of the River a Birth, for the Gillngam Sand lies off from above the faid Point of the River, half a Mile to the caftward, and there is but a very narrow Channel between it and the Middle Ground: Which Channel is not to be entred into but with 1 quarter Flood, with aV effel of Charge, and lics about a quarter of a Milc Offing from the Main, until a certain round buthy topp'd Tree half a Mile to the northward bears W.N.W. and then the nearer the Shore the better the Chamel, until you pafs the River of Tygers: You may begin to edge over towards the River of Rogues, above the Head of the Grand Middle Ground; and when Buffelow Point bears from you half or a quarter of a Mile, ftecr directly over for the E. Shore E.N.E. and that will carry you in 5 to 7 Fa . Clay Ground, till you come under the Shore, which to prevent the danger of the Point of the Diamond, you mutit keep fair aboard, until paft the fmall Creck; this Channci affords not room to turn it up.

Particular Directions for failing with great Shits downtho Ganges, and bringing them out into the Sca, according to the Draught given by Mr. Herring ain able Piot Uppofing your Ship to be up at her Noorings at the Factory, bclow the Town and Port of Iflgcley, bound down: Firt note, That from Gull Gat in the height of the River, as

## Sailing Dircetions for the

far as from the Town of Ihachy, till you come below the Now (Cbatir), lics a Sand ftreching two thirds or more thwart the whole River, almot as far as the 'Dutch E'uncelo: To avoid this Shoal, keep on the Starboard fide of the River, where you will have, ; to $^{2}$ Fa. till you are below the next Point, and beiow the uthal (/)ato Moorings; after which you will havestand s Fa. kecping the fame Shore clole aboard, tull yon come a little thort of the Point oppofite to the $I$ )ate Ba, welo: Then you will be patt all the Danger of the Shon!.
when you are below the New. Chatey, and palt a litele Houte on the biaser fule, thort of the bunge be there you will fiad a Sand, beine a Branch from the Bozery sad but difcontinuad by a lmall Chmel of but + Foot Water; it is fteep too, and reaches withur a little Stone's Throw of the B:an$g^{2}\left({ }^{\prime}\right)$

Whereas then you are obliyed to put over to the Weftern Shore, beate the loint oppofite to the Rimizho is flat off, Y 14 mult put over to, as that you may not fallbelow the Biane sed becuate of the tleep Shoal, whech lies to near it as above; and then you will be out of Danger of any of thote Shoals. Fot from the Buarelo it felf there is a Depth of Water fufficient, ? 2.5 to - Fadaceording to the time of the Tide; keep it on board therefore, till you come near the uper Point of the Un'a!! R Rach.

The 'Deezls Reach, befides its perplexing Crookednefs, from whence it has its Name, has its thare of a Shoal and Eddy on the Starboard fide: the firft lies from the upper Point, fletching two thirds over the River, or more. To avoid that Dinger, fhand over from a little above the upper Point, with a frat Tree on the caftward fide, being the lowermolt Tree of a Ferge Gurden which it flands in ; and with the Tree next the neper end of the plain Ground on the caftern Shore, and keep that Shore fair on board to the lower end of the Reach.

Irom the lower l'oint of the $\bar{O}$ )ezils Reach keep the middle of the Chancl, or a little nearett the Starboard Shore (the Larboard fade heing thoal) till you juft cuter into Pata Reach; and there a little below the Fown of $P$ 'alta, elge over to the caflem Shore agm, and a breaft with a great fingle Tree.

From the Eack of the Point on the Weftern Shore of 'Pulta Rece', 't:s all thoal more than half the River over, till you cone to the Elephant Tree at the upper end of the Town of On:

In his Reach you muft kecp Mid-Chand till you are palt the Cown; for in the Bight of Degon, where the Town fande, 'tis all deep Water, but then 'tis never without a flrong Sddy : and on the oppofice Point of the Reach 'tis all thoal off a gnod way. When you are below $\mathrm{G}^{\text {gegoir, keep the W. Shore }}$ on board, till you are almoft at Chanock, or Chanoc.
there are a Shoals in (.\%anock Reach, one on the fide of the Town, the other on the oppofite fide: The firft reaches from baif a mile above to af a mile below the Town, and is called the upper Shoal: To avoid this, keep the weitern Shore aburd till doucoms to a fingle Tree on the lower cuatof the

## citions for the River Hugeley.

- below the more thwart selo: To aRiver, where enext Poinr, hich you will aboard, wll o the $\cdot$ Itat the shos!. part a little 6, there you and, but dil: r; it is flecp of the $B:: / \%-$
the Weftern Lo is flat offi, low the Biallt it as above; chofic Shoals. ater fufficicut, c; keep it on Point of the

Crookedsefs, ;hoal and Ed: upper Point, To avoid that Point, with a bott Tree of a Irec next the ore, and keep dach.
ep the middle hore (the LarDult: Reach; fe over to the le Trec.
ore of 'Pulta over, till you the Town of

Il you are part re the Town thour a frong is all fhoal of the W. Shore nluor.
on the fide of c firt reaches Town, and is weftern Shore ver cindof the

Being come thus tar below the Houle on the W. fide, fland over again towards the $S$ :ilt Bazaks on the callern fide ; and then go rounding Chitty Poc Bight, down as far as Chitty Nuts Point ; only mind to kecp out of the lidily, which you will tind a lietcle thore of the Point, and which will fet you ftroug upon the upper fide of it.
N 3 . If you have a large Ship, that draws from 15 to 18 Foot Water, you mult not weigh to fland into the Bight of ChittyPor, till about an hour betore higi Water.
N. 13. The Starboard Shore in (1hittyP'or Reach is all thoal above; Chanucl over; therefore (however long it may fecm). be fire to keep in with the Land yute at the bottom of the light onthe other fide.
From Chitey Nemy Point, cren from the firft Pitch of the Land, you muft not tail to fland off, giving the l'oiat it felf a latse Birth ; and cadeavour to kecp over at lealt as fir as MidChamal, or rather nearelt the Starboard Shore ; and hold this Courfe till yoa come almant to the next Point on the caftern Shore: This Courfe is necetiary to keep you clear of a Sand which lies all along on that file, alment from Point to Point, was from a litelchelow the great Tree at (ibitey Minty Town, to a good yuarter of a mile below the Town it Eelf.

From the ecxt Doint on the weftern Shore below Cbitty Niuty Town, you matt make back to the Larboard Shore again, and keep that fide aboard as low as (iover-Napore: for the other Shore, (which is there N.W.) has mother Sand Which runs along hali Chanel over, and reaches right down the Stram of the River, till you are patt Ciover-Napore Town: That Shoal is very dangerous, 'tis ficep too, and not to be borrew'd upoa with the Ebb nearer than ${ }_{4}$ Fa.

From the Tow of Ciover-Napar:, you mutt tand over to the N.W. Side again, and keep that Shorc on board, tull you come almot as low as the Point againt Kiddery P'oc: The reaton is, becaufe the Bight below Gover-Napore is thoal, and has attrong Eddy alfo; reaching till atter you are paft the Shoal, and Which will fet you back upon the Point of the Shoait telt : to you muft hand over; but then take care to keep the wettern Shore on board ne lower than to the Point as above; for below the Point there is another great Shoal, which lies two thirds of the Chmand over: As focm therefore as you are a litele fhort of that Point, ftand direetly over with the Fhag-italf upon Kiddery W'oc Sort ; then go on romadng Kiddory Po Buabt, till you are paft the Town ; only be caretul of Liddies, and when you findelam, kecp a linte ofl, bue not above a Ship's length or two ; and if you find the Water fhoalug' ${ }^{1 / 2}$ the Offing, ftand our no firther.

From this Bight you may make the Head of a Reach called Circat Taina, in the Eurrance of wheh iun two Eddies, one from the lower fide of Kidery Poe 'Point abovenanced, and the other from the Point of the Starboard Shore: The firt fipreads almoft thware the whole River, therefore as well in the Entrance as all along the Reach, you mutt kep the Starboard Shore aboard. Thic Reach is bold, withour any Shoals, Ruse＇＇，＇tis all thoal more than half the River over，till you come to the Eldobut Trie at the uper cod of the Town of io＇su＂。

In this Reach you muft keep Mid Chamel till you are pat the Town；for in the Bight of Desun，where the Town flands，＇tis all deep Water，but then＇tis never without a ftrong Eddy＇：and on the oppofite Point of the Reach＇tis all floal off a good way．When you are below＇legor，keep the W．Shore on board，till you areamoft at Chamock，or C $1 /$ anooc．

Here are $=$ Shoals in（．bamock Reach，one on the fide of the Bown，the other on the oppofite fide：The firft reaches from half a male above to $\therefore$ of a mile below the Town，and is called the uppor Shoal：To avoid this，keep the weftern Shore aboard，till you come to a fingle Tree on the lower end of the cicar Land；or if that Tree thould be gone，obterve the find phan Ground，and when you come near the lower cod of it， Itecenore with fome Trees abour Channock Honfi；but go no firther over than Mid－Chanuel，for then you ate exactly be－ tween the two Shoals．

Keep on then in the Ofling of the Channel，heaving your Leat，and to you will go clar of the lower Shoal ；then you muft ade oner gradualy towards the Shore of Chamock，right with rwo Bhat Trees，near to which，and between them and the Water－fide，fland wo Palmetta Trecs，and under them a tmall Houfe bearing E．and W．with a Pagode on the Weftern Shore．

From thefe Trecs and the Honte keep the eaftern Shore clofe aboud into the next Reach，which is called Titener or Tilti－告保 Reach：The Town of Viterar is a dmall Village by the River flele，at the Entrance into the Reach．

When you are enterd into Titegar Reach，keep the Mid－ Chamad as far as the Stapper Tree＇；then from an old Brick ＇Pugote oppofite to the Trec，begin to edge off to the Weftern Shore，with a great Trec oppofite to the Town of Puddreft； and from thence kep the W．Shore on beard，till you come almolt to the Point en the fame Shore，and at the lower end of Siappor Reach；and then cdye over to the eaftern Shore again，with 2 great Trees；then go rounding the Bight on the fine file．（for the other Shore is thoal off ；over the whole Kiver）till you come over to the＇ 1 unch＇Lamp，and there son will lind dep Water，in but a lind Shot offing from the shore．

Thus youmat continue rounding the Bight，till you come Within lis than－of a mile of the upper Point of Barnagar Reatb：This Reach is（on the Barmater fide）flat all along； thereture from a little above the upper Point on the E．Shore （ishich in coming down the River muft be with your Larboard Tackj you muft put over for the weftern Shore，keeping it fuir aboard，ull you come about $\frac{3}{3}$ of a mile below the white Honk of Buragar，or Baians：l！．
c Trec. re of 9 ulta ver, till you he Fown of
you are pall c the Town out a ftrong sall thoal of he W. Shore noc.
an the fide of firft reaches own, and is cftern Shore er end of the rye the fiad ce cond of it, ; but go no cxactly be-
caving your 1 ; then you mack, right en them and under them a the Weftern
ishore clofe er or Tiltillage by the
ep the Midn old Brick the Weftern f Puddrejt; 11 you come e lower end aftern Shore Bight on the the whole and there ing from the

11 you come of Barmagar at all along ; the E. Shore our Larboard $\therefore$ kceping it of the white

Shore on board ano lower thas to the Point as above; for below the P'ont there is another grat Shoal, wheh lies two thards of the Chame! ower: As fown therefore as you are a hatte hore of that Point, fland directly over with the Fhagetall upon Kidduy Y'or fort; thon go on roundus, Kaidery Po Sists, whou are puif the Town; only be caretal of Eddies, and when you find them, kep a linte ofl, bue not above a Ship's lengrh or two ; and it you lind the Water thoalng :a the Ofling, fland ont no farther.

From this bight youmay make the Heal of a Reach called Cirat Triman, in the Entrance of which mu two Edhes, one from the lower fide of Kidicery l'oe l'om abowe-maned, and the other from the Point of the Staboand Shore: The fint pipeads almon thwart the whole River, therefore as well in the Entrance as all along the Reach, youmull keep the Starboard Shore aboard. The Reach is bold, withour any Shols, with 5 to 7 la. from fide to fide: All the Dansers there are from the Eddics, etpectally that in the Bight, between at and the Fort, whete if you do not keep ro the eallem Shore, the Ebb will be apt to hore you upon the other Shore; and there's no carrying an Anchor out in the Tide in that Reach thil the next high Water.

When you conce patt the Point at the bottom of this Reach, you enter upon Little Tama Reach: Here from behind the Point on the caftern Shore, lics a Shoal ; to fhun which ftand over from the S. Point directly to the Town of Littte Tinma, and kecp the fanc Shore on board afterward, till you come to the lower Point of the Reach.

This is a bate Shoal; you will find its farthent Extent thwart the River is towards a fmall Creek below Little Tanita; when you briug a fingle great Treceftanding on the W. Shore open on your Stern about a Handpike's length, off of the Tower in Circat Taina Reach, then you areclear below the Shoal.
N. B3. The fame Tree is a good Nark alfo in going up the River with the Flood, and Itanding about Littic Tama Point ; directing you not so venture any farther towards the caftern Shore off of the Point, than while you can fec the Sand off of the aforefaid lower Point of Creat Tamene Reach; for if the Flood thut in the Tide with the Point, the Current will horle you too falt upon the Sand, fo that you will not be able to fetch Little Tanna again in time ; for the Shore of Litile Tanna ought to be kept clofea. board in coming up as well as in going down.
On the Back of Little Tama Point in the lame Reach, a little below a Village call'd Morneck'Pore, or Manneck 'Porc, on the weftern Shore, lies another Shoal, which runs, at leaft ${ }^{2}$ crofs the Channcl: You mult not at your Peril come nearer to it than 5 Fa. upon the Ebb; and in doubling the Point, you muft take great care of ir, as allo of an Eddy in the Bight op. pofite to the Point: when you are about the Point, you are in that which the Pilots call Crown Reach, which is a bold Reach ;

## Sailing Directions for the River

Reach; and you have no Dangers but from the Eddics, which you may avoid by kecping a Mid-Channcl Courte, the Eddics runchicfly clofe under tome Bulhes, which you will tec upon both Shores.
W'illiam and \%oln's Reach is next: The upper Point of this Reacl, on the $W$. Shore as you tail down, is flat about a Stone's Caft from the Shore ; fo you mult give the Point a finall Birth: On the other fide there comes in a River called Nutty Buingelo, the Openiug is tlat like a Bar to the Entrance, for about a Stone's Throw; to is a litele Bight below the S. Point of the Opening or Mouth of the River : you muft therefore edge over tow.ards the $W$. fide of the great River, till you are below the fimall River, and the Bight allo, but you mult not kecp the W. Shore on board; for as ioon as you are paft the Back of the upper Point, that Shore lics thoal allo, till you are above half thro' the Reach, and the Shoal foreads for more chan half Chamel over.

The next Reach is \%oln TPadre's, or Fatber Yobil's Reach; others call it \%edro's Reach, others Sumatra Reach; 'tis calIed to from an Illand which lies in the Fair Way of the Channel, and whech is an ugly dangerous Ifland, becaule the Current lets upon the Point, which you meft be carctul to thin : you may tail on cither fide of it: Some of our Pilots fay 'tis bect to leave it on the Searboard or Weftern fide ; 1 think (fays Captain /lerring) the other the bett, becaufe on the Larboard fide of the Main from the Point next above the Ilhand, to the lower cud of the Reach, it is all along flar off a grent way, which makes the Chanucl narrow, and it lics clote under the Illand, laving no whore above $3 \div$ to 4 Fa. therefore (fays the 1ame Author) upon Experience of both ways, the Choice has been, with the Ebb and in great Ships, to Icave the Illand on rhe Eattern or Larboard fide; to which cod, as foon as you have a fair fight of the lifland, and are below the Shoal latt mentiond, you mulf ftand over to the Starboard Shore; and to prevent being horfed by the Tide upon the Point of the 1lland, you mult keep the upyer Point of the little River (called folm \%'erdoc's River) to clofe aboard, as that you might leap from the Yard-Arm on Shore upon the Stecp of the Point ; and $a$ you open the River, cndeavour to check the Ebb which comes out of it as much as you can, till you find your filf thot below the other Point.

If you are not in very great hafte of your way, it yould be prudent always to contrive to pats by this Inland at the firft of the Slack; and to that end, if you are upon an Ebb Tideto come to an Anchor about $\frac{1}{2}$ a mile above the Ifland, till thenext Flood is lipent : but then you mult be fure to ride under the Starboard Shore, becaute there you have the Slack half au hour, before 'tis high Water in the Stream of the Tide, or under the orher Shore: when you are under Sail, keep the fame Shore till you find the Tide is fipent in the Offing; and even then, go but a hittle out, till you come down as low as the Rangumata Poont, which is guite clear of the Illand. In this Courfe, and by this Caurion, you will have a fair Channel and decp Water, withour Rid, es or Shoals, rill you are quite below the Ifland.

When y cautions, a any occafi here the $R$ therwific $t$ you down ley 'T'oint.
Bcing pal Pafrage call by S. and 1 decp from decp enoug places are,

1. Ju:f bo
2. In the
3. On th lower part runs fo ver Flood, that Tide, whet anchoring time you w which dipe on both She they will or the Palfage, out into tho Weftern st to bear S. b the mide.te
The ${ }^{2}$ ) low the $N$ lying about which Crec Trec and th ther. This with the Eb means, ctip calc obtervo
4. From Narrows o ver to the the S. but 1 the reff.
5. Then paft the C only a imal Country $A$ mit, to thi
6. Goins near the fland boldl you can k nearer.
which Eddics upon
of this trone's Birth : Bulabout of the lge obelow cp the of the c halt a half

Reach; tis cal-Chanc Curflum: lay 'tis $k$ (lays arboard to the t way, der the dys the ice has and on as you oal latt and to Illand, d \%obn p from and $:$ comes lot bc-
ould be he firft Tideto henext he Starour, bcr the oore till , go but g gumata irfe, and Water, Hland.

When you come to the Point of in giley Riere, be very cautious, and come no nearer than 7 , or ar fartheft 6 Fa . upon any occafion whatever; but fland over to the S. Shore (tor here the River lies E. and W.) to the Tatch Rendezvous; 0 . therwite the Ebb of both Rivers joining will certainly pulls you down upon the Shoal, which runs our from behind liugeley Poinl.

Being paft the Mouth of the Mugcley, you come to the Paflage called the Narrozer; they lie winding, but nearelt E. by S. and W. by N. The Paflage is not esery where alike deep from fide to file ; but where there is thoal Water, 'cis decpenough for molt Ships that come that way The thoalett places are,

1. Jut behind the Point of Hiuctay Riene.
2. In the Bight of the Eecond Reach on the Latboard Shore.
3. On the Starboard Shore, about 1 : mile thort of the lower part of the Chamel called the Narrows. The Tide runs fo very freng in this Paffage, as well the Ebb as the Flood, that it is more prudent to lofe an hour or two of the Tide, whether going up or down, than to run the hazard of anchoring in fuchaplace; the beft of the Courte (so at what time you will) is in the Mid.Chance, becaue of the Eddies, which cfeecially on the Ebb are very ftrong in feveral places on both Shores, and chicfly on the Larboad Shore, where they will entangle your Ships to that you will hardly get thro the Pallage, till you clear your felt of the Lddics, and get firt out into the Channel. Bring a fungle Tree which ftands on the Weftern Shore. and which is the Mark of the Diamond Sunt, to bear S. by W. from you; then you miy know you are in the midde of the Nouth of the Nesreces.

The Diamond Sand flretches from the Weftern Shore below the Narow' 'point E.S.E. the E. Point of the Netroows lying about Muskethor thort of a litte Creek on the E. Shore, which Creck is dircetly oppofite to the aforchid Tree; the Tree and the Creck bearing due E. and W. Without one another. This Sand is dangerous and flecp, and in going down with the Ebb, you mut take care nor to borrow of it by any means, cfpecially with a great Ship: For your fafety ia that calc oblerve,

1. From a great fpreading Tree at the lower Point of the Narrows ou the Staboard Shore, be fure to fand direelly over to the E. Shore, Atcering E. by S. or E.S.E. not tarther to the S. but fo as to get over with a Tute of Bulles higher than the reft.
2. Then keep the Laftern Shore clofe aboad, rill you are paft the Creck above aned, and afterwands allo, allowing only a linall Birth to the Point of Roges Rion, callid by the Country Adergom. Hold this Courfe, if the Wiad will per. mit, to the place called the ChanelTrow.
3. Going down with the Ebb, it is not life to cone too near the Shore, till you are near the Creek; then you maty ftand boldly in with your iead, till you come to, $\frac{1}{}$. or while you can keep the two Ponts of the Navows upen, but no nearcr.

T'rnion's Rwery loclote aboard, as that you might hap trom the Yard.Am on Shore upon the Steep of the Point; and as you open the River, endeavour to check the Ebb which comes out of it as much as you can, till you fud your felf thot below the other Point.

If you are not in very great hafte of your way, it would be prudent always to contrive to pats by this lland at the firft of the Slack; and to that end, if you are upon an Ebb Tide to come to an Anchor about $\frac{1}{1}$ a mile above the 1 lland, till thenext Flood is tpent: but then you mult be fure to ride under the Starboard Shore, becaute there you have the Slack half an hour, before 'tis high Water in the Stream of the Tide, or under the other Shore: when you are under Sail, keep the lame Shore till you find the Tide is lient in the Offing; and even then, go but a little out, till you come down as low as the Rangumata -Pomt, which is puite clear of the Illand. In this Courfe, and by this Caution, you will have a fair Channel and deep Water, withour Rides or Shoals, till you are quite below the Illand.

From Kithsumata 'Point ftecr over to the caftern Shore, for there is a Shoal below the Point from a Place called the Chocly, where at low Water you have not above $1 \frac{1}{4}$ to 2 Fa . Water. When you go for the caftern Shore, make for the Nouth of the River Kullliully, or Kiloula: from thence keep that Shore on board quite thro' the Reach, there you will never have Icts than from 6 to 9 Fa .

When you come to the lower end of the Reach, ftand over again $t$ the W. Shore directly with two Trecs, which you will fee almoft clote together: bring thofe Trecs into one, then you are clear of a broad Shoal, which lics off from the E. fide of the River two thirds over it.
$\therefore B$. The bett of the Tide here runs on the Starboard fide.
There is a timall River comes in here called by the 'Duteb Froken's Sprout, and the Reach they call Porkur, becaute they uted to fetch Hogs down that Stream: The Reach is bold from fide to fide, excepr a fmall Shoal in the River's Mouth, and another in the Bight over againtt the Point of the Rafp Houle Nomb.

This is called the Ra/p-/botefi Reach, from another little Riwor which the Ditte salfo named to, for what Realon we know nor, which comes in juft at the Head of the Reach: Before you open the River, you may know where it is by a great jorcading Trec which ftands on the Point of it. It fhoals half Nusket-ihot or more into the great River, and the Shoal begins above the Point a quarter of a Mile or more ; but the Mid.Chand of the main River makes you amends, for there .ll is bold, and you have is Fa. thro' the whole Reach.
from the Rup-Houfe Rizer keep the lame Shore aboard, till you come to a plain for of Ground, with a round buthy Thee near it, higher than all about it: from that Tree ftand over to the other shore, which bears there S.E. from you, then keep the Shore aboard till you come almolt to the Mouth of the River Hugeley, a little thort of Tumberly, or Tomber: lick, or Cockeley.
with the means, cl calc oblery

1. Fron Narrows var to the the S. but the reft.
2. The palt the only a lina Country mit, to $t$
3. Goin near the ftand bold you can nearer.

A little not Sand, Offing: A fingle rom

From th Shore cloi here youn is to tay, t way: allo againft the 'Poiut bca mile and $h$ muft take Main in 5 indeed go till they c for great?

When by E. or and there Shore in v Watcr, weigh at tween the fide of th Then i N. fo as to you if yo arc carry Mixen S' $N . B$. and $h$ When Weftern Gallingha ne, then c E. fide
 with the Ebb, you mutt ake care not to borrow of is by any means, clpecially with a great Ship: For your farcy in that calc oblerve,

1. From a great fircading Tree at the lower Point of the Narrows on the Staboard Shore, be fure to fand direatly 0 ver to the E. Shore, Itcering E:. Sy S. or E.S.E not farther to the S. but to as to got over with a Tufe of Buhes higher than the reft.
2. Then kecp the haflern Shore clofe aboatd, till you are paft the Creck above nansed, and atterwands alfo, ailowing only a linall Birth to the Point of Ropes Rever, callill by the Country Acergom. Hold this Counte, it the Wind will per. mit, to the pilace called the Cbrimut tries.
3. Going down with the Ebb, it is mot late to cone too near the Shore, till yon are near llo Creck; rhen you mav ftand boldly in with your icad, till youcome to ; ba, or while you can keep the two ponats of the Nerrows open, but no nearer.

A little fhort of the River of Rogwes lies a Bank of Mon, not Sand, ruming out fom the Shoré: you muit give it a frmall Offing: At the upper end of that Bunk upon the Shore, ltands a fingle romed Bulh, by which you will know it.

From this River, if you have a great Ship, lieep the Weflern Shore clote aboard all along as low as the Chamel Tives; for here you meet with a great Obftruction in the Mid-channel, that is to lay, the great Savid all'd the Midald Ground lies full in your way: alfo remember, that about $\ddagger$ of a mile from the Shore, juf againft the River of Rousifilut in the Bight, when Bafitiore roint bears from you li.by W. Wh. lics a Shoal extending a mile and halt in length, and half a mile in breadeh, which you muft take care to avoid: keep in berween this Shoal and the Main in 5 to 6 Fa the Shore clofe aboard; limill Veffels may indeed go without it, between it and the Grind Middle Ground, till they come that way to the Chanmel Triss, but it is not fate for great Ships.

When you mike the Channel Trees, bring them to bear S. by E. or S.S.E. from you, and ftand in a little below the Creck, and there you may anchor about a Cable's length from the Shore in very good Ground, and wait there for the acxt hish Water, eipecially if your Ship draws much Water: Then weigh at high Water, and keep the beft of the Chamel between the Head of rhe Mixen or Misen Sinht, and the lower fide of the great Midel! Ground.

Then if you have a leading Gale, feer over W. and W. by N. fo as to keep the laid Channel L. from you, or a-ftern of you if you can, but not more fourherly chan E by S. lett you are carry'd down by the Force of the Tide of Ebb upon the Mixen Sund.
N. B. By this Courfe you vill keep the ben of the Channel, and have 4 Fa. on the firtt Shot of the libbs.
When you are come about halt way orer, itecr away for the Weftern Shore, fo as to fall in with it abou: : of a mite below Gallingham River; thre you will hases to 6 En. thif Cromen;

Ground; then keep atong the Shore in about half a mule Otling, as well to aroid a fmall Ridge a mile and halt below fichle, $z^{\prime \prime a m}$, and about: of a mile from the Shore, as allo to give the upper Point of Nedgare Niver a fufficient Birth.

When you opea Kedsare River, kecp ft!l the tame Offing, to aroid being carry'd into a decp Water a little hart of the Lone Sallal llead, and till you come almont to the falfe loint of Kedeare: then being got a little within the Shoot and Outfer of the Tide, come to an anchor till uext high Water, to wat the Opportunity of going down the inner Channel ; but erder youi Maters to, it polible, that you may go that way by Day-light, for'tis a very difficult Pafiage.

Your next Dificulty is to pals the Sho.l of Cockoly: For this you muft be fiere to take the top of high Water, and a Icading Gale; and tho the Ebb makes violently down, yot venture to weigh, andkecping about Saker-fhot from the Shore, ftand fair dowa with the Current, till you bring a buthy Tree (which is higher than the reft, and tands between the falle Puint of Kidare and the upper Point of Cockoley Riwer) to bear N.W. a little wellerly; then you will begin to find the Sctadings uncren, and they will hold fo, till you bring the Tree N. by W. from you, and a ragged Trec on the N.W. fide of Cackely N W. fomew hat northerly.

In this Offing, the icatt Water you will fund will be from 3 : to + Fa. with the aforetaid Offing of half a Mile from the Shore.
N. B. Engely Sumi' begins at the white broken Cliffs below the Cown, and reaches to ${ }^{3}$ of the River's Mouth, lying thwart in, as you approach the upper Point, halt a Mile from Shors.
When you are paft Engely Sand, you may take a larger Oifing, that is, $1 \frac{1}{2}$ Mhle or a Miles from the Shore, not more: Then you will be lafe from the Barraballo-boad, which will bear S. from you 4 Milcs from the long Grove Kcepon thas, till you come below the Barrabatll, and bring the Kittcidell Tir e N.N.W. from you; and then keep with $\frac{1}{2}$ Mile Offing in $3^{\frac{1}{2} \mathrm{Fa} \text {. loft ouzy Ground. }}$

When you are come almoft as low as the Salt River, you mult clae farther from the Shore, to avoid a Ridge of hard Gromed which lics about the Offing in that River; then you will enter the S'uatch between the Braces: When you find your felf there, as you will know by the Soundings, and by the Salt River Tree bearing N.N.W. or N. by W. about 4 Mile from the Shore, and the Ground lott, in 3 to 3 ; Fa. at low Water, then let go your Anchor, and flay till high Water, to go over the Brace's upen the firft of the Ebb.

When you waigh, flecr away W. by S. and W.S.W. not more foutherly, becaule the firt Shor of the Ebb fets wholly off from the Shore: With this Courle you will not have lels than Fla over the Brace, and when you are o:cr, you will be no Icts than 4 Ls from the Shore, and have a fair Opening into the Bay of Bergal, and where elle you pleale to go.

## Directions for the River Hugeley.

ut half a mule mind halt below ore, as allo to icnt Birth. he lame offing, ce llort of the the falfe Point hoot and Outhigh Water, to Channel; but ay go that way

Cockoly: For h Watcr, and a atly down, yct from the Shore, g a bullhy Trec civeen the falle koley Riser) to gin to find the y you bring the an the N.W. fide
will be from Nile from the
en Cliffs below shouth, lying int, half a Mule
y take a larger hore, not more: cad, which will
Kecp on thus, ig the Kitticidll $\frac{2}{2}$ Milc Offing in
alt River, you a Ridge of hard iver; then you When you find indings, and by N. by W. about $\mathrm{n} \boldsymbol{y}^{\text {to }} 3: F a \mathrm{Fa}$ till high Water,
nd W.S.W. not Ebb fets wholly ill not have Ic's o:cr, you will e a fair Opening pleafe to go.
may go above the Nicobar Iflands N . and below the Adamans S . having Sca-room enough between, and fo go away to the K'ing's Chadnnel (as 'tis call'd) within the Ifle' le' (irand, and to the Coaft of Mergi N.E. by N. If you are bound to Pegu it felf, kecp a more northerly Latitude, and ftand over in 15 d. to 'Point Nesrais, and the 'TBiamend Iflands.

Some advile, in failing to the Coaft of Pergh, to pals between the Coros and the moft northerly of the Adaman: Iflands: The Realon inded is good, if you are liure to hit the Paffage, viz: Becaufe the Winds gencrally blow there hard at S. which joind with a very flrong Current fetting hard into the Bay, makes it dangerous to go lower or farther S. among the Mortavan and Adiaman Illands, which are very difficult Places; and yet they lay, if you kecp a more northerly Latitude, it may cudanger lofing your Paflage, and being pun'd up too far into the Bay.

This Daffage is fair cnough, if you fter a duc Courle from the W. that is, go away E. by N. from Lat. $12 \frac{1}{2}$ on the Coaft : When you are thro this Paffage, you muft ftecr N.E. by N. for the Point $\Lambda^{\prime} c$ grais on the S.W. Coaft of P 'egu, or N.E. if you would make the Diamond Iflainds and Rocks, or E. by N. and E.N.E. if you would go for the Gulph and River of yegu.
if you go away for the Cape Ni, grais, or the Diamon's as above, be very careful of the Preparics Rocks, or, as our Scamen call them, the 'Peperes, which are a great Clutter of Rocks in the lair Way: If you are bound to Ifle le (i)and. you leave them on the Larboard-fide a great way; but if you go for the \%iomonds, you kave them on the Starboard fide, and go fometimes jutt by them. 'Tis true, they are in fight above Water and to windward, to the danger is che lefs: They make at Sea like to many Ricks of Hay, and mult be carctully look'd for in the Night.
As I have faid, the Ships may be in danger upon this Coaft of lofing ther Paflage, or of being driven up the Bay; fo it mult be oblerv't, that in fuch Cate they ufually make the l'ore and River of Negrais, and run in there: 'Tis necdful therefore to give what Directions can be had in cale of that Diftrefs.
Being at Diamond Point, the Courfe is N.E. by E. and N.N.E. to Red-Point; from whence kecping the Shore chote on board, let the Land be your Guide, kecping within the Inland of Negrais, and go directly for the Harbour. Note, You may go within Piftol- -lhot of the Shore; 'tis all a clear Strand till you come a.breaft of the tandy Point of the lhand $N_{c} c$ grass; there you may anchor under the Inand, landlock'd and iccur'd from all Winds, and in from 4 to io Fa. foft ouzy Ground. When you break Ground from thence, you will fee a fmall Inand lic about 2 Ls off, bearing S.S.E. from you; take hecd of a dangerous Shoal which runs out from that liland W.S.W. into the Sca, 'tis very broad and dry ar low Water : You may run between it and the Sand, but then take care to give the Illand a Birth of 2 Miles at leatt on your Larboardfide. 6 Ls from this Sand alfo lics the Chanel berwecn the

When you are come almoft as low as the Salt River, you mult cthe farther from the Shore, to avoid a Ridge of hard Ground which lies about the Offing in that River; then you will enter the S'uatch between the Braces: When you find ycur felf there, as you will know by the Soundings, and by the Salt Riecer Tree bearing N.N.W. or N. by W. about 4 Nile from the Shore, and the Ground foft, in 3 to 3 Fa. at low Water, then let go your Anchor, and flay till high Water, to go over the Braces upon the firft of the Ebb.

When you weigh, fteer away W. by S. and W.S.W. not more foutherly, becaule the firtt Shot of the Ebb fets wholly off from the Shore: With this Courle you will not have lets than; Fa. over the Brace, and when you are over, you will be no lets than + Ls from the Shore, and have a fair Opening into the Bay of Beagal, and where clle you pleate to ge.

Thus we have given full Dircetions for failing both up and down the River Hugeley; It camot be expected we fhould do the fame for thole Parts which are not known to be practicable. The Entrances up the Gonges are many; and that part calld Hugely River is but one ; But we do not know any of the reft to be navigable, as we know this part to be, which has been furvey'd and founded with great exactucfs by the moft ceperiencd Pilots both Enstifl and Tutch.

From the Mouth of this great River, the richeft for Commerce in all that part calld Eafiern, we have no cxact knowtedge of the Coant, only that the Nicoobar Iflands are beyond the Coalt of $I$ 'cgn, and in the Fair Way of our Trade to Sumatra: We know litele of then, and have litele bufinefs with them, and therefore no exalt Survey has been taken on that fide.

Nor do we know any thing of the Coaft of Bengal on the caftern fite of the Bay: The Charts and Maps indecd deferibe a Coaft here, and rhey plant grcat Cities and Rivers upon the Shore, in particular a capital City call'd Beagal, whicl: upon Examiation canmor be found.
Nor have we any exact account of the Seas on thisCoaft that may be depended upon, from the Coaft of Bengal to the City - Acioin or Stamation, or to the Streights betwecn Malacca and Sumatra; therefore all we can lay upon that Head, is to direct our Ships not to venture upon the Coaft, or to fail for Achin within a confiderable diftance of that Shore, or of the llhands that hic upon it; for all the Coaft of 'Pegn, and of the I and S. of it to the Latitude of 7 or $8 \mathrm{deg} . \mathrm{N}$. is throng'd with Iflands and Rocks numberlefs and undelcrib'd, and that to an Offing of 20 to $; 0$ Ls from the Shore.

If indecd you are bound into the River of Pega, or to the Coaft of Neraimand the Ifle le Grand. Places much out of the way of Bufinets, as the Trade now lies, then you muft go away from the Bay or Coaft, according to what Latitude you are in ; fuppofe you are upon the Coaft of Coromandel, or of Cisicondu, the beft Latitude to make the Coaft of $\operatorname{Peg} \mathrm{S}^{\prime}$ in is that of 12 d . is a or 11 d .10 m . in cither of which you

It River, you Ridge of hard cr; then you Vhen you find dings, and by by W. about $3^{\text {to }} 3 \frac{\mathrm{Fa}}{}$ til high Water,
W.S.W. not bb fets wholly not have Ictis ser, you will a fair Opening cafe to go.
g both up and ted we thould n to be pracny; and that not know any ole, which has by the moft
hcf for Como cxact know. are beyond the c to Sumatra: Is with them, in that fide. Beugal on the indecd deferibe ivers upon the ', whicl: upon
this Coaft that $a l$ to the City 1 Malaccia and lead, is to dior to fail for ore, or of the T'cgn, and of N . is throng'd rib'd, and that
'egu, or to the 5 much out of cu you mult go it Latitude you omandel, or of of $\operatorname{Peg} 4$ in is of which you
fore to give what Directions can be had in cale of that Diftrefs.
Being at Diamond Point, the Courfe is N.E. by E. and N.N.E. to Red-Point ; from whence kecping the Shore clote on board, let the Land be your Guide, kecping within the Ifland of Negrais, and go directly for the Harbour. Note, You may go within Pittol-thot of the Shore ; 'tis all a clear Strand till you come a.breaft of the fandy Poiut of the lland $N_{c} \rho$ grats; there you may anchor under the Ifland, landlock'd and fccur'd from all Winds, and in from 4 to 10 Fa. foft ouzy Ground. When you break Ground from thence, you will fee a fmall Illand lic about 2 Ls off, bearing S.S.E. from you; take heed of a dangerous Shoal which runs out from that Illand W.S.W. into the Sea, 'tis very brond and dry at low Water: You may rum berween it and the Sand, but then take care to give the Illand a Birth of 2 Miles ar leaft on your Larboardfide. 6 Ls from this Sand alfo lics the Channel between the Diamond Ifland and the Main, leading to the River of TeguS.S.E.

If you are obliged to go into the Harbour of Negratis, obferve as you go in, to keep the Main clofe a-board on the Star-board-fide, and go on to till you are quite within the Point, for there lies a Shoal in the middle of the Entrance.
From the Diamond Ifland to 'Pegu the Courfic is E.by S. and ESE. till you are paft the Shoals, which lic off from the fouthern Coalt of Pegu, and which reach far into the Sca, in fome Places 10 to 15 and 20 Ls, tho there is a good depth of Water over great part of them : The Direction is to flecr from the low Point of the 'Diamond I/land to Braque, a Point lying N.E. by N. from it upon the Main, dift. 25 Ls; 'tis a very high remarkable Point, and thole that have fail'd this Coalt al! know it.

Fromethis Point you have a clean Coaft to the Mouth of the River of $P$ egut, and you may keep along, the Shore withing to 4 Ls: The Mark for lailing in is three Trees on the W. Point of the Entrance. There is allo a Bar upon the Entrance, with not above 12 to 1 ; Foot at low Water, and a very ficrec Current out ; but there is more Water in with the Flood, and when you are in it is deep cnough.

As you muft trade with the utmoft caution upon this Coaft, 'tis much betecr nor to run into thefe difficult Porrs; and therefore 'tis worth notice, that there is an lland call'd Little Nograis, in the Mouth of a grear River calld the Salt Rizer, and that there is good riding as well for Trade, as for Sccurity out of the reach of any Encmis.

The feveral Directions of otber Artifts, as well for this Po t and Ifand of Negrais, as for the River of Pegu, are as follows, viz.

TO fail from Arvacan, you had beft fail in by the Broken Ifland to the fouthward, and then run downwards along the Shore, till you make the other Illand, in the middle of the Rivers

## Sailing Directions for the

River's Mouth : You leave the Illand upon the Starboard-fide, that is the beft Channel, call'd the New Deeps: You muft be very cautious in trading herc, and carry on all your Bufinefs on board your Ship. Going into Negrais you have from 6 to ${ }_{16}$ Fa. and at Arracan from 4 to 8 Fa. the Land low, except Cape Negrais, and 1 Saddle-Hill upon the Illand.

As you turn in, Great Negrais ftands upon the S. Point ; it is built on a fmall Hill, a little Pagode and four Teddy Trees ttandiug fingly upon the fame Hill, and all to be feen; which, is very remarkable. The Point is bold going in ; and within by Little Negrais, as'iwell as in the River at Great Negrais, are feveral very good Harbours.

You fie the Town and Harbour of Little Negrais before yougo in to the River; it is call'd allo TDear Ifland: It ftands without, on a fimall Ifland abour 3 Miles long and one broad; at the Eutrance of the large River Negrais. This Illand lics in $16 \mathrm{~d} .12 \mathrm{~m} . \mathrm{N}$. and diftant from the fouthermoft part of the Great Negrais 4 Ls; they bear from one another $S$. half W. and N . hali E . On the northermoft end of this Illand is a large high Hill, and on the Top of this Hill a Rock, whence arites a Spring of good Water. Some part of the N.W. cud of this Ifland at Spring-Tides is cover'd with the Sea.

The Salt-wiater River, in the Mouth of which this Illand lies, is navigable far up for Ships of the greateft burden ; but on the Larboard-fide going in, lies a Ledge of Rocks about a Piftol fhot from the Shore, dry at low Water; and if you have necd, you may keep them clofe on board, without danger ; but ftanding over to the caftward, you will have 4 Fa . Water: Bet if you thould be forced to ftop a Tide, under thefe Rocks is the beft Ground to ride in, there running but little Ebb or Flood; from Great Negais it is very flat.
N. B. It ebbs and flows here but 2 Foot N. and S.

As you fail up the River, you will have 16 to 6 Fa. various Soundings, ctpecially if you keep the great Ifland on board, but it is all clean Ground; the beft anchoring is near the low fandy Poiut, on Little Negrais: By this Point there is a little Creck rumning up into the inland, whercby it may be known; and when you are within a Cable's length of the Shore, you will have 6 Fa . land-lock'd from all Winds: Allo there is good ways for laying Ships a-fhore: The watc $\ldots \ldots$ place is at the Foot of the Mountain, at the N. cnd, as aforefaid: Herc you may ride in 5 Fa. ouzy Ground, half a Cable's length from the Shore.

Sailing Dircetions for entring into the Opening of the Great River of Pegu over the Bar.

Being off of the Opening or Entrance of the River, firft bring the Bowl-of.TMuch Trees to bear N. by W. half W. and fteer right with them in that manner: This carries you over the bett of the Courte ; then you come into 5 Fa. and to haul up N.W. and N.W. by N. edging on and off on the weftern Sand, between 5 and $4 \frac{1}{2}$ Fa. all Sand and Ouze: From thence keep the Channel, till you bring the $W$. Point of the River to bear S. by E. then will the Bowl-of-Punch Trees bear N.E. halt N . The firlt Reach lics N.E. half N . you muft keep the Larboard-fide on hoard in from 5 to 16 Fa. gradually,
starboard-fide, You mult be your Bufinefs have from 6 to d low, except d.
he S. Point ; it r Teddy Trees e feen ; which, $n$; and within Great Negrais,

Yegrais before and: It ftands one broad; at is Illand lics in oft part of the her S. half W. is Mland is a Rock, whence N.W. and of a. ich this Ifland It burden ; but Rocks about a and if you have ithout danger ; c 4 Fa. Water: ler thefe Rocks at little Ebb or
J. and S.
to 6 Fa . various land on board, ; near the low : there is a little lay be known; the Shore, you fo there is good place is at the faid: Here you :'s leugth from

## gof the Great

the River, firft W. half W. and arrics you over Fa. and to haul on the weftern $\because$ From thence of the River to rees bear N.E. 1 mult keep the Fa. gradually,
 again to 6 and 7 Fa .

On the E. fide of the fouthermoft of the Ciocos Iflands, which lies in the Lat. of about 14 d .20 m . N.E. by N. from the N.E. end of the Great Andaman, is very good anchoring, in a faindy Bay, where is Wood and Water ealy to be come at.

Along the W. fide of the Andaman Sand are many Coral Grounds, and in fome places other large Rocksand great Overtalls; in fome of which is ouzy Ground, but very little. Here is much R.ock-Fifh.

## Here follou', from $\operatorname{Mr}$ Davenpott, the latef Directions for the Eutrance into the Negrais.

It has been affirmed by feveral who have been at this Har. bour, that from the W. Point of the Ifland call'd Little Ne. grais, or Dear Ifland, which lies on the S.E. fide of the Harbour, there runs a great and dangerous Riff quite over to Diamond Ifland; which with tunken Rocks; and Breakers by them, renders the Opening unpalfable, even by a fmall Boat: From whence they feem to infer, not only an I mpoffibility of going to the Ifland, bur allo an ablolute Neceffity of keeping the W. part of Great Negrais on board at their Entrance into the Harbour ; and indeed I cannot but own, that whether you come from the eaftward between the Legeade and Diamond Ifland, or from the weftward out of the Sca, it is beft, if you have a leading Gale, to bring Tiamond Ifland E.from you about 6 or 7 Miles diftance; at which time you will have 12 to ${ }_{13}$ Fa. fandy Ground, and the 'Pagode Point, or $W$ Wefmoft Blatf Point, on the opening of Negrais, bearing N.E. from you: So you may fecurely ftecr in for the Poinr, and giving the Rocks that lie a fimall diftance both off that and the next Blaff Point a Birth of about half a Mile, you may boldly ftand in for the River, and not expect lefs in the Entrance than 4 Fa and half at low Water: Nor can I think that Courfe, with a wefterly Wind and a Tide of Flood to be too venturous, with regard to the cafterly Flat at the Entrance into the Harbour: And thote Affertors of an unpaffable Riff or Ledge, lying between theie two Rocks, muft give me leave to lay they are miftaken, having by Expericnce found the contrary : And as I perceive they fpeak by gucfs, I can with more certainty fay, I have found that thofe Breakers, which with the S.W. Mo: $\mathrm{S}_{0} 00 \mathrm{n}$ appear very high and dangerous, do neither render the Opening unpaffable, nor proceed from any foal Ground or funken Rocks, but from a Sand which lics 4 Miles and half into the Sca from Dear Iland, being a level Sand, and affording among the higheft of rhofe Breakers 3 Fa. at low Water: Not that I would have any one be too bold with it, by reafon of the untoward Scas which often run upon it with the firit of the Flood, efpecially if an out-wind blow freth Nor, on the other fide, are you tied up at the Entrance into the Harbour to keep clote on board the Pagod: Rocks: For if the Wind blow wefterly off Shore, or cafterly, fo that you cannot lead it in upon a Stretch, you may fland over as far as you pleale roward Diannond 1 Iland; but then you munt be fure to keep the 'Fugode and the Rocks, with the Red Cliff on Pagorie 'I'o.nt, in ouce or very little open to the caftward of the faid Clitf;

Creck running up into the Illand, whereby it may be known; and when you are within a Cable's length of the Shore, you will have 6 Fa . land-lock'd from all Wiuds: Alfo there is good ways for laying Ships a -fhore: The watering place is at the Foot of the Mountain, at the N. cnd, as aforeflaid: Here you may ride in 5 Fa. ouzy Ground, half a Cable's length from the Shore.

Sailing Tirections for entring into the Opening of the Great River of Peguover the Bar.

Being off of the Opening or Entrance of the River, firf bring the Bowl-of-Tunch Trees to bear N. by W. half W. and fteer right with them in that manner: This carries you over the belt of the Courfe ; then you come into 5 Fa. and fo haul up N.W. and N.W. by N. edging on and off on the weftern Sand, between 5 and $4 \frac{1}{2}$ Fa. all Sand and Ouze: From thence keep the Channel, till you bring the $W$. Point of the River to bear S. by E. then will the Bowl-of-Punch Trees bear N.E. half N . The firlt Reach lics N.E. half N. you mult keep the Larboard-fide on board, in from 5 to 16 Fa. gradually, and then fhoaling to 14, 11, and 9 ; at which time you will cuter the fecond Reach. Then ftecr N.W. keeping the Lar-board-fide of the River in the depth of 8 to $8 \frac{1}{2}$ Fa. Water, which will bring you in fight of 'Paguing 'Pagode, bearing N . from you: In this Reach you will have from 8 to 10 Fa. and thence to 6 and half, then 6 , hard Ground : And then you will cuter the third Reach, which lies N. by W. the depth on the Larboard fide gradually from 4 and half to 16 Fa . As you fail along to the fourth Reach, you will find on the Starboard-fide a very long Sand, fo that you mult fland over for the Larboardthore again, where you will have $7_{7}$ Fa. but if the Tide heave you up to the weftward, and the Wind falls off, you will

## Saiting Directions for the Coafts of Sumatra, a the Streights of Sunda, as the Eaftern Coaj Streights of Sincapore inclufive.



R O M the River of $P$ egu to the City of Acbin ou the N. Point of the llland of Sumatra, as we have no Commerce with the Pcople, fo we have no Survey of the Coaft of their Country : Our Maps and Pilot-Books call it the Country of Tannajary; the only Part we know of it is the Coalt of Mergi, or Mergim, and the Illand Grande. where our Ships fometimes put in to Trade, a $\quad \mathrm{d}$ which is mention'd above.

The Nicobar Iliands lic off and parallel with this Coant, bemg fituate about 100 to 120 L s W . and if we begin at the Hland Goros N . and meafure to the main Illand properly calld Nucobur S (for they are all, tho fallly, reckoncd to the Nirobar Iflacds) they are in langeh N. and S. iso L.s, but very
nay be known; the Shore, you lfo there is good ; place is at the faid: Herc you e's length from

## Ig of the Great

the River, firf W. half W. and carries you over Fa. and fo haul on the weftern c : From thence of the River to rees bear N.E. u mult kcep the Fa. gradually, h time you will ceping the Lar$8 \div$ Fa. Water, ode, bearing N. 8 to 10 Fa. and id then you will ie depth on the a. As you fail c Starboard-fide or the Larboardthe Tide heave ; off, you will
the cafterly Flat at the Entrance into the Harbour : And thofe Affertors of an unpaffable Riff or Ledge, lying berween theic two Rocks, muft give me leave to lay they are miftaken, having by Experience found the contrary : And as I perccive they fpeak by gucfs, I can with more certainty fay, I have found that thole Breakers, which with the S.W. Monfoon appear very bigh and dangerous, do neither render the Opening unpaffable, nor proceed from any foul Ground or funken Rocks, but from a Sand which lics 4 Miles ? .d half into the Sca from 'Dear Ifand, being a level Sand, and affording among the higheft of thofe Breakers 3 Fa . at low Water: Not that I would have any one be too bold with it, by reafon of the untoward Scas which often zun upon it with the firft of the Flood, elpecially if an out-wind blow frelh Nor, on the other fide, are you tied up at the Entrance into the Harbour to keep clotic on board the Pagode Rocks: For if the Wind blow wefterly off Shore, or cafterly, to that you cannot lead it in upon a Stretch, you may fland over as far as you pleale toward Diamond Ifland; but then you mult be fure to keep the Pagode and the Rocks, with the Red Cliff on 'Pagode 'Po:nt, in one, or very litele open to the eaftward of the faid Cliff; and the S. Point of Diamond Ifland no farther S. than S.S.E. for fo you thall never have lefs than 4 and half Fa. and will keep without the Pitch of Little Negrais or 'Dear Illand cither ; I fay you will keep without the Pitch of the Flat, and fo may ftand in fecurcly : Nay, if there werc Occafion to pals to the northmoft Illand, keeping in the aforenamed bearing, to half a Point more E.till you come without a fhort Mile of it, you may fafcly do it; for in that Tract you have 6 to 7 Fa . and may ftecr right in for the Mouth of the Povean River, on the E. fide of TDear Ifand, in 5,6, and 7 Fa . only minding to give the Flat which lies ealtward a fmall Birth, by kecping Mid-Channel.

## of Sumatra, as well the Weftern Coafts from Achin to Eaftern Coafts thro' the Gulph of Malacca, and the

 ve.City of Achin iumatra, as we e, fo we have try: Our Maps of Tannafary; ¿i, or Mergim, times put in to
this Coaft, bcve begin at the properly call'd aed to the Ni o I.s, but very
often with the Intervals of 20 to 30 Ls between, as in particuiar between the Illand of the Car. Nicobar, and the fouthermoft of the Andemans call'd the Chitte Andeman, or Little Ande. man. The Nicobars lie in Lat. 7 d .26 m .

Our Ships often put in at the fouthermoft of thefe Niccbars for frelh Provifions, and oomerimes for Shelter in ftrong loutherly Winds; the Inland call'd Nicobar in particular, having a good Bay and good anchoring on the N. fide, and a good Channel thro' berween ir, and another Mland due $N$. from it. Here they ride in 12 to 15 Fa. good holding ground, and perfectly fecure from all Winds that blow except the N.E.

From the Road on the N.E. Point of Nicobir Ifand to Action on the Illand of Sumatra, the diftance is 40 Ls. the from elled E. by N. and W. by S. 10 Ls: Tha a hafe caly Port. Well frequented; the Road is to the caltward of the Catic; youhave - to \& Fasa high Water, and 5 to 6 at low Water: And if you are willug to go tarther m, there are P ilots to be had, as well Emoptamas Natives.

If from Albin you would hiil down the W. Shore towards the Streight of Sumda, cither to Phoman: or Benconlin, which are the ulual Pep perote as the siters call them, and whither our Ships chictly if not only fail, you are to be toid in Eeneral, that it is a mott dangerous Coant, full of Mands, Rucks and Shonls, tubjat to loug Calms and fierec Currents, clipecially hetween the Illands and the Main: For this Reafon. and as ac know nothing of the N.W. and W. Coant of Sumaon, and have noe the leaft Commerce with the Pcople, till youcome to the Port of 'Prianan, which is almoft directly under the line, 'ris beft to go away from dionin W. then about the Pome of ' Dama S.S.W. Then go away out to Sca, till you come into $;$ deg. N. kecping off from the Coant of Sitmatia at lant 35 to $p \mathrm{Is}$; then fecer S. by E. and S.S.E. kepung the fime Offing, till you come within a deg. of the Line; thengo a Point more to the caftward. till you crols the Line, and come a brenft of the Streight berwecn the lland Nithtions, or Nimtom, and the lland of Giood Fontunte. Note, You are not to come nearer the Main than the diftance mention'd above, till you come into the Lat. of thete illands, then ftand in till you fie them.
Keer is Lat. $1 \cdot 20$. and you'll fall in with the N . cnd of the larget of the two Mands, calld the Good Fortme, which is meir ac I Slong. There are many fimall Iflands about it, but they are bold, and there are no Dangers but what are icen. The Ifland of Good Fortune is the boldeft of the two; but tis fafe to $\mathrm{kec} p$ your l.cad going, and go on in $1 \circ \mathrm{Fa}$ then you can be in no danger of a Surprize. When you are thut within thete llaads, your Courfic is E. by N. directly, and a ctear Coatt: Howercr, it is not advifable to make too frefl way in the Night on this Coaft, but rather Hull and lie by, and go on in the day. The diftance from thefe Illands to $\%$, minan is about is Ls.
Tho the Courle gencrally in this Run is W. by S. (for Triamon and thete inands lie W. by S. and E. by N.) yet you muft leer away E.N E. and N.E. by E. till you make the Hummocks on the Man, which you will fee before you can fee the Shore, which is low flat I.and. When you have fight of thote Humnocks, fland right in for Sumatra, you will foon come to the fis:ht of the Main.

When thote Hummocks bear N.E. from you, look out well, and ksep your I cad soing, for there are feveral itcny Banks, and tome shoals jut there, to be difcover'd by the I.cad. When you find thoife Shoals, and have 6 Fa Water, then you

## cilione for the Coufts of Sumatra.

Int $\leq \frac{\mathrm{N}}{}$ lance fiom the W. $s \in 1 . s$, and is a lifec caly Mlward of tlic sto at low - there arc Pi .

Shore towards moulin, which hicm, and whito be told in full of thands, ficrec Currcuts, or this Rcafon. Conalt of Sumathe Pcople, all almolt directly cision W. then ay our to sea, mis the Cont of $y \mathrm{E}$ and S.S.E. $\mathrm{n}_{1}$ deg. of the II you crols the wecn the Illand Good forthlue. han the diltance of thete Illands,
c N . cnd of the rtulue, which is ds about it, but : what arc icen. f the two ; but 1 in 10 Fa then a you are thut directly, and a make too frech full and lic by, thefe Iflands to
by S. (for Tria) yct you mult make the Humore you can fie a have fight of you will fion
, look out well, ral itcny Panks, d by the I cad. fater, then you
E. from you; then you may edge ofit to the stahoard towards
 a Road on the S. fide of thote laill llands, which has bur ${ }_{4}$ Fa. foul ftony Ground; but kecping to the Main as above, you will find 12 to 16 Fa Nor are there any dangers on that fide, only oblerving your Depths by your Lead, which you mult keep going all the way.

Being in this Latitude your Courle is S. by E. along Shore, till you come iuto 2.30 ; then S E. till you are in 3 . 10 . then S.E. by S. to 5 . The Land is all the way very high and mountainous. In the way, that is tolay in $4+10$. there is a verygood Road under an lland hard by the Main, and not far ofl of the Entrance imen Bictuoult; here you may ride focure in fiac good holdugstomend and may ftecr in from hance F. by S. to licheontl.

But heing bound for the Soregerts of Sar da as before, your Courte is along S.S.E. Abour z I.S W.S.W. from die laf mentiond thand. there lies a vory damecous Shoal of Sand off in the Sca: You have no other way to know it by, bus fecing the Sca break moft volently upon it ; you camot come near the Soundings of in, for it is all meven and very hazardous; but keep near the thland, giving the Point of Sctlaber a good Birth, and to kecp along Shore, as above, S.S.E. cafterly, till you make a litele Ifland clote to the Man, in the Lat. of jutt Gdeg. Then you will fee a romed Hill duc E. from you on the Sain of Sumatra; kecp on in fight of the Hill, till you come abrealt of three lllands which lic off of the Point of Sumatra: When you are up with thete mands, the round Hill will bear duc $N$. from you.

Thofe threc Iflands are diftant from the above little Ifland about + Ls, they lic E.S E. and W N.W. The Land on the Watcr's Edge is moderately low, but within the Country it is excecding high and mountamnus. The depth of Water increales here, for you have 54 Fa. clote by the Shere: Bur F. and W. from the three Iflands you may anchor in 16 Fan and farther up, when the round Hill bears due N. you: have so la

Within thote Iflands is the Road of Marrough; If you are bound thither, you may bear in bollly between the illands; the Channels in all are good, ftcering N.E.by E.. till you come to the Main; there you will have zo to 30 Fa, and no Dangers but whar are feen, fo you have nothing to do but not to ruin up in the Night.

When jou are come in with the Main, you wiil be $4_{4}$ Ls W.S.W. from the Head-hand, or (ape calld Ahar romels Pem: Kcepon then E.S.E. to the Road, for that lies along shore from the threc little Illands mentiond above, ull you come almoft to the S. Point of Sumatra, which makes the Eurrance into the Streight of Sunda. In all this Courfe you will fee the Land to the northward very low, and the Shore fipead with little Iflands; but you mult make up to the Head-land of S'kmatha, and then keep on under flore, as above.

When you come into this Road, which is very good for;
ivithin the llands, your Courfe is E. by N. directly, and a clear Coalt: Howerer, it is not advilable to make too tech way in the Night on this Coalt, but sather Hull and lic by, and go on in the day. The diftance from thete Illands to Y'oimmon is about is Ls.

Tho the Courle generally in this Run is W.by S. (for Tria. mon and thete Mlands lic W. by S. and E. by N.) yet you mut flect away E.N E. and N.E. by E. till you make the Hummocks on the Main, which you will fee betore you can tie the Shore, which is low that I.and. When you have fight of thote Humnocks, fand right in for Sumatra, you will doon come to the fi:ht of the Main.

When thote Hummocks bear N.E. from you, look ont Wcll, and kcep your Lead going, for there are feveral fony Banks, and tume shoals juft there, to be difcover'd by the lecad. When you fund thofe Shoals, and have 6 Fa Water, then you hav hut juit 6 Ls to Priaman. The Land about it is high, and like a Saddle ; the Middle of thote high Lands bears N.E. by E. from you, when you are at anchor in the Road.

There are four llands before the Road; you cannot open thote llands as you come from Aclizin.W. and thercfore take care not to go within them on that fide: But when you come from the Sca more foutherly, you have a good Opening, and may fail berween, leaving fwo of them on one fide and two on the other: But be fure to give a good Birth to the little outmott Ithand towards the main, for there is a Sand lies off on every fide of it; come no nearer to it than 8 Fa at the nearelt, till sou set up with the other threc Ifles which lic all in a Line: Then keep to the fouthward of the northermoft of the three. and under the llland is the Road, where you may come to an anchor in good Ground, and well lccured: You may run bold in, and anchor where you plate in 4 or 5 Fa .

Betwicen this Mland and the Mouth of the River, Which is the Port and comes down from the Town, the Channel is bue narrow, about the fame breadth as the Thame's is at Blackerall. Be fure to moor your Ship woll, for the Currents and Frethes ran tharp: On that thand you may have good frefl Water, but ruft none of the People. You are 7 Ls diftance here from Yicou.

When you waish from this Road of Priaman, go on within the Indads to the fouthwarl, keeping the Main on board: Venture not in among any of the llands, for the Chamels betwecn themare full of Shoals and foul Ground; but kecpin 5 to - Fa. the illand of Sumath a under your Larboard-Bow. Nor is it comvenient to tail by Night upon this Coaft, but rather come to an Anchor till you have more Sca-room, which will be when you come intolat. 2. 13. The Reaton is, that when you fal thus under the high Mountains of Sumatra, and the high Iands which lic a little off of l 'riaman, you have frequent Gufts and Squauls of Wind, cfpecially in the Night; to that you had berter kecp all clote, and lic ftill in the Night. Then in the Dajkeep on un er the Shore, till thole high Lands bear
directly, and a make too ficell ull and lic by, hefe Illands to
y S. (for ${ }^{2}$ 'riayet you mult ake the Humc you can lie have fight of you will foon
look out woll, I flony Panks, by the I cad. ucr, then you out it is high, nds bears N.E. Road.
a cannot open therefore take hen you come Opcning, and de and two on the little outnd lics off on at the neareft, c all in a Linc: of the three. ay come to an You may run Fa.
iver, which is Channel is but s at Blackerall. ats and Frethes celh Water, but ace here from
n, go on withTain on board : c Chamacls bebut kcep in 5 to rd-Bow. Nor is sut rather come h will be when when you finl and the high have frequent Night; to that Night. Then igh Lands bear

Within thote Illands is the Road of Marrough: It you are bound thither, you may bear in boldly between the Illands; the Channels in all are good, flecring N.E.by E. till you come to the Main; there you will have 20 to 30 Fa. and no Dangers bit what are feen, fo you have nothing to do but not to ruin up in the Night.

When you are come in whth the Main, you will be of Ls W.S.W. Hom the He.ad land, or (ape call'd Alarousls proini. Kecp on then E.S.E. to the Road, for that lics along Shore from the three little Ithands mentiond above, till you come ahooft to the S. I'unt of Sumatra, which makes the Entrance into the Streight of Sunda. In all thas Courte you will tice the land to the nombard very low, and the Shore firead with litele Illands; but you muft make up to the Head-land of S'smatt a, and then keep on under thore, as above.

When you come moto this Road, which is very good for 3 or + Ls, give the Shore a fair Birth, and anchor where you pleale in 10 to:2 Fa. The Ground is very good, and here the people are conscrfible, and you may ger good Refrethmeats and Provifions.
$N$. B. Here you are in 86 deg . of Longit. from the Cipe de Bonne E:/perance.
N. B. At the Entrance of the Streight of Sanda lies an Ifland call'd the Salt Hill, rather nearer to "fowa than to Sumatra.
When you come open with the Streight, if the Weather is clear, you may tee both Mains at once, that is, the Mands of Sumatra and taza.

The Stream in the Streight fets $1_{2}$ Hours in and 12 Hours out, and rons with very great force, fo that fometimes you cannot ft m it, no not with a very ftiff Gale: In which cale you muft make to one fide or other, as the Wind lies, 'tis no matter which, and anchor under the Illands sill the Tide turns.

If youput over to the Sumatra fide, go in a litele between the Ifland that makes the Streight and the Main, kecping nearer the Main than the Mland, becaule there is a Rock in the Fair Way W.by N. from the Point of the Main: But you will lee it either above Water, or by the Breach of the Sca if the Water be over it. Here you lie fair to take the firft curn of the Current caltward thro' the Streight, cither to run thro' between the Illand and the Main, or about the Illand to the S. and fo take the beft of the Streight in the main Chanmel, the Courfe to the Iflands Cracatoa is E. by N .

If you are bound to Bantam on the $\dot{N}$. Coaft of $\% / a a$, keep to the \%are fide of the Streight, till you make Bome Palimbam, which is the tarthett Head of the I!land ot \%ava N.E. As you go about, give the Cape alage Binth, then fland away E.S E.
N. B. Point I'dambam lies S.E. by S. from the Head-land of Sumatra, which makes the Streight: About $\sigma$ Ls. dit.
From your Oflng N.E. from Point Palimbam, itand away


## Sailing Directions for the Coaft.

or Paujaig: This Illand is diftant from the S.E. Land of Sumatria 9 and half to 10 L.s S.E. by E. and lics in the Entrance to the Bay N. by W. from the Port of Bantam.

Having made the Inand, come no nearer to it than , to 6 Fa. then look out for the Main, there you will make a round Hill bearing S. or S.S.W. from you, then you will know how to fteer for the Road, for the round Hill Itands within the Country, right with the City and Harbour of Bantam.

If the Hill bears due S.S.W. from you, go right in with it, till you fee the P'alo Hemas: Thele are five little Iflands juft in the Fair Way to the Road: And juft within them you will fee the Town, and the Ships riding under the Illands before it: You may anchor there, where and in what depth you will, from + to 16 Fa . good oury Ground.
N. 13. The Tide riles here upon the Flood at ordinary Tides 5 Fa. right up and down.
From this Road of Bantam to the Road off of Batavia, inclufive of the deep Bays in both the Ports, the diftance is 22 Ls .

From this Road to the S.E. cud of the Illand of Banca the diftance is 60 Ls , the Courle N.N.E.

From 'Point ${ }^{1}$ 'alimbam at the E. end of the Streight of Sunda, to the Port of Old Brathderimajjite on the Inand of Borueo, is 175 Ls E. by S. and E.S.E.

But we muft go back now to the N. cnd of the Illand of Sumatra, viz. to Achin, in order to give fome Directions for the E. Coaft, and for lailing down the Coaft of Malacca to the Sitreeghts of Sincapore, UJic.

When you come out of the Road of Achin, you muft go aWay N. half E. to keep clear of a Rock which lies in the Offing, and bears $N$. from you, being 7 miles, or $2 I . s$ and a half from the Points : your Courle then is E. by S. to the Diamond Y'int, or 'Point ''Panjang, which is a little to the S. of old (9)echa, dift. 42 Ls : it is indeed very rare to lead it thro' this length along shore, the Winds being to variable and unfteddy on this Coalt; when therefore you are come about half the Courle, let it be in what Latitude it will, keep an Offing of 5 Ls, but no farther, for fear of a northerly Current; and if the Wind fails, and the Tide be out, come to an Anchor there, till the Flood.

When you are fair with Point Panjang, haul in within 2 Ls of the Land, keep your Lead going conitantly, becaufe the nearer Point 'Panjang, the decper is the Water, tho the Channels arc uncertain. S.E. by E. from 'Point 'Panjang there lies an Itland called Pulo Varror, or Vercur.
$N$. B. The Word 1 'ulo, or Poulo, in the Malayan Tongue, which is chicfly uted on all theic Coafts caftward as far as C'hima, is underftood to fignify an Illand; 'ris alfo fo underftood by the Siamefic and the Chimefes of Cochin Clbina, as wall as by others.
'This Pulo Varror is diftant from the Point above Achin S.E. about 28 Ls, and lies in Lat. 3.59 N .
N. B. Here the Tides are very particular; the Flood runs
N. Ruch fromacr than the Ebb it flows in the open Sca

Sand, ye Fa. gradu

P'ulo oine anott called all to take its the Count

From 1 Rachado, part of th of Ciape R from 20 t Sca breaks

From C lacea is 9 way withi clean Stra $N$ W. fide led fo bec. caufe 'tis fently ope vicur ; the what Dep may have quent Guy which ma is very fo

There between are very Ships hav with the a head, to felves as Channels.
If youn theW. fidd for thole till youb Formofia away S.E bout 121 'ris likely will quic your Dc Night, y can, bef N. and T not lefs t

The I the Land palt the by E. gd duc $S$. ab

## sfor the Coafts of Sumatra.

of Su- Sand, yet you will have 8 Fa, over it, and a fier that 17 to 18 Fa gradual Soundings quite to the Shore.
T'ulo 'Parcelare and the Point lavoe lic E. and W, dift. from one another 20 Ls. Upon the Main of Malucra flands a Hill called allo 'larcelare, and ,from which the Illand is lippoofed to take its Name ; it flands upon a Point or Nock of Land, all the Country being flat and level ronnd about it.

From 'Tuly P'arcelare the Coatt lies along S.E. Half E., to Rachado, dift, 12 I.s: The Fair IV'ay lies cloke under Shore part of the way, and no where in above 2 Ls Offing ; yet X of Cape Racbado there lics a Sand Riff., which thoals upon you from 20 to 9 Fa, in half a Glalist ruming, and fometimes the Sca brcaks violently upou it.

From Cape Racluado to the Fatrance into the Port of Mre way withina $L$ or ${ }^{\prime} w^{\prime}$ o thinds of a $L$ from the Shore; 'tis a fair clean Strand, and all fecure. S.E. from the Cape, and on the N W. fide of the Road of AI lalate a, lies the /Food $1 / \mathrm{l}: \mathrm{ind}$, calIed fo becaufe the Eirropean Ships take in Wood there, and becaufe tis very plentiful. Leaving the llanal halfia $L$, you prefently open the Road, and have the Town of Malaciat tar in vicev ; the Road is very good and hate, and you may anchor ind what Deperh you pleate: The bett of the Road is in ; Fa. You may have more Water farther S. bur then gol: lic open to frequent Gults and Squals from the N.W. from off the Hills, and which may cudanger your running upon the $/ 1$ 'ood $d$ ghind, which is very foul for half a $L$ offon that fide.

There is another Channel on the W. fide of the Sands, and between them and the Coaft of Sumatra; but the Soundings are very uneven, nor is the Courfe thorowly furveyed. Some Sllips have been forced thro' on that fide, aiad have done well with the urmoft Care and Toil, kecping at Icaft = Boars always a head, founding the Ground to an Inch, and placing themfelves as Buoys on either fide to mark our the Shoals and the Channcls.
If you would go from Malatica thro' the Streisbets of Dryan, on theW. fide of the Illands of Malacca, you mulf ftecr awayE $S$ E, for thote Iflands bear E.N.E. from Malatca: Kcep that Couric till you bring them to bear N.W. by N. dift. 5 Ls. Then Cape Formofia will be 6 Ls dift. beating E. by S. from you: then go away S.E. till the little Crimon or Camon bears S.E. by E. About 12 Ls from you, and Point Prffurs E. by S. half S. when 'ris likely you will have but o to 7 Fa, but kecp on, and it will quickly decpen to 22 and 23 Fa . Then in the Lame Courlo your Depth will thorten again to + or $;$ Fa. and if it is in the Nighr, you would do well to come to an Anchor; and if yous can, be fure to ride fo as to have Point Pefang bearing E. by N. and Pulo Carimon S.E. there you will have from ${ }_{3}$ to $5_{5}$ th. not Icfs ti:an 3 any where.

The Inands of Carimon are $3^{\text {or }}{ }_{4}$, all clofe together, and the Laud very high; the fouthermoft is the highelt. Havirg paft the Illands where you anchor'd to the fouthward, or S.E. by E. go on to till you fee the fourhermoft Carimon bearing duc S. abour 5 L.s. from you: in the Fair Way you will have
L.s, but no farther, for fear of a northerly Current; and if the Wind fails, and the Tide be out, come to an Anchor there, till the Flood.

When you are fair with Point Panjang, haul in within 2 Ls of the Land, keep your Lead going conitantly, becaufe the nearer Point Panjang, the deeper is the Water, tho the Channels are uncertain. S.E. by E. from 'Point P'anjang there lies an Illand called Pulo Varror, or Vercur.
N. B. The Word l'uln, or Pouln, in the Malayan Tongue, which is chicfly uled on all thefe Coalts caftward as far as Chona, is underftood w fignify an Illand; 'ris alfo fo underftood by the Siamefic and the Cbinefes of Cochin Cibine, as well as by others.
'This Pulo Varror is diftant from the Point above Acbin S.E. about 28 Ls, and lies in Lat. 3.59 N .
$N$. B. Here the Tides are very particular; the Flood runs much flronger than the Ebb; it flows in the open Sea W.S.W. and yet upon the Ifland the Flood fets S.E. by S.

The Watering-place (for here is very good Wooding and Watering) is on the S.W. part of the llland; the whole Illand is itecp on every fide, and almoft all Rocks.

8 to 9 Ls, S.S.E. from 'Pulo Varror lies the Water Jfland; and between, E. by S. and E.SE. 20 Ls farther, iies the Ifland of Arrocs or Iakrocs, which is rather a great Rock than an Ifland: when this Rock bears W. by S. 7 Ls from you, then you will get fight of $P$ Pulo P'arcelare, lying at the neareft E. by S. half S. from you ${ }_{11}$ to 12 Ls ; if it hould not bear thus exactly from you, ftecr either W. or E. as occafion regures, to bring it to the Pofition and to that Diftance alfo; which you may cafily do ; for if you have the Channel open, the 'lide of Flood tets ftrong S.E. by S. at the Rate of 2 miles an liour, and the Libb tets N.W. or N.W. half W. tho the Tides change frequently here, as the frethes come down from the Rivers upon the Main of Malaced, for thefe lllands lie near in whit the Shore.

Between the Pulo Arroes and the Sands off Shore is a fair Channcl and deep Water, 30 to 50 Fa . in the Channel, tho at tucha Deprh you have foft Ouze, but on cither Shore good hard (iround: The Sands are fo fteep too, that you have at one Caft jola at the next $\mathrm{I}_{3}$, at the next 7 ; and then if you do not come about immediately, youll be falt aground. Alfo in the Chanel the Somongs are as uneven, from 50 to 35 and ${ }_{i} ; 1$ a. and between the Sands, the like, from 19 to ${ }_{13} \mathrm{Fa}$. If you come to 10 Fa. fand no nearer for fear of the northermoft lome of the Sand, for there you have but 5 Fa . when the Itland bears E. half S. and at the next Caft may be faft aground. You will tee the breakers upon it at a diftance, reaching ? or 3 miles in length.

When you are paat thele Difficulties, and are got within the Sunds, you will find deeper Water; till you come to 22 Fa. tot ouzy (iround; and tho you hhould be to far caftward as to tee the Tices on the P'ubu y'arcelare, where there is a Bauk of

Hicw?
for tho till yot Formo away bout 1 'ris lik will qu your I Night, can, b N. and not lef Tho the La paft th by E . duc S . gentle the Ifla it, brin fang bo the lat fland a it bear flands a kecping led the There's both ab

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rc is a fair nel, tho at - good hard bave st one if you do Alfo in to 35 and to ${ }_{13} \mathrm{Fa}$. ic northera. when the ift aground. ling : or 3
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 for thofe Iflands bear E.N.E. from Malacta: Kecp that Couric till you bring them to bear N.W. by N. dift. 5 Ls. Then Cape Formof $a$ will be 6 Ls dift. bearing E. by S. from you: then go away S.E. till the little Crimon or Carmon bears S.E. by E. About 12 Ls from you, and Point Prfan! E. by S. half S. whin 'tis likely you will have but 6 to 7 Fa. but keep on, and it will quickly deepen to 22 and 23 Fa. Then in the fame Courte your Depth will thorten again to 4 or 5 Fa. and if it is in che Night, you would do well to come to an Anchor; and if yous can, be fure to ride fo as to have Point Pefang bearing E. by N. and Pulo Carimon S.E. there you will have from 3 to 5 til; not lefs than 3 any where.

The Iflands of Carimon are 3 or 4 , all clofe together, and the Land very high; the touthermoft is the highelt. Having paft the Iflands where you anchord to the fouthward, or S.E. by E. go on fo till you fee the fouthermoft Carimon bearing duc S. about 5 I.s. from you: in the Fair Way you will have gentle Shoalings from 16 to 6 Fa . Then fteer fo as to double the Illand; but if the Tide take you thort, fo that you mils of it, bring to and come to an Anchor in 20 to 21 Fa. Point $P$ Pe fang bearing N.N.W. half W. and the little Carimont S. by E. the latter lying 5 mile from you. When you weigh again, ftand away E. and E.S.E. to double Carimon, and till you fee it bearing due W. dift. 3 miles. Then you are clear of all the 1 flands abovemention'd, and maygo directly down the Streights; keeping in between 12 and 16 Fa. till you make the Shoal called the Middle Ground, where you have a fafe Channel: There's no break upon the Channel, but there are 2 Rocks both above Water, and 7 Fa. chole by them.

There runs a greai Current, which fers upon this Midide Ground: the Shoal being founded, is found to be almof all harp Rocks; but there is Water enough over them, and abreat of them ${ }_{15} \mathrm{Fa}$. within $2_{2}$ Cables length of them.

There are 3 fmall Mlands lic off, as if in the Fair Way; but the Channel is between the lllands and the Shoal, about a mile and half broad: bring thefe 3 Inands in one, and then you are abreaft of the Shoal. Then bring the Shoal and Eittl: Carimon in one, and you will open a very good Road called the Twins, where the European Ships fometimes ride, and where you will have ${ }_{17}$ Fa. well thelter'd from almoft all Weathers. From this Road you have a Fair Courte down the Channcl of the Streights S.E. without any more Obftraction S.

There are fome Ripplings, but they are of no importance, the Streights are perfectly open and ciear. When you conse off of Great Drions, there is a great Rock like a Boar, with tome funk Rocks about it; bat you have room chough to go ches oi it: If the Tide takes you fhore here, youmuy anchur anat is in 16 Fa. good fafe Riding, the Twins bearins, NE. by Nand the Shoal above-namd N. by W.

From this Siturtion youweigh, and quit the sporstr; and going away S.E. betwern two little Illants, and nwehtr Shed called Sabone, you may kedege out betheca thete mands and a Pent

Point called Pulo Panteos; then lay it about between Little Dryons and the Oyler Iflands, keeping off from the latter, becaute they are foul: then bringing the Carimon, the Middlr' $G$ Gonsd, and the foul Oyfer Iflands in one, ftand over to the Grent Diyons as near as 14 or 12 Fa. then tack. weather the little sound Illand in the Mouth of the Streight, and ftand away S by E. and S.S.E. 10 Ls, and there come to an Anchor.
N. B. In this Paffage you mult avoid the Breakers between the little Round Ifiunid and the (Oy/fer Iflands, but more among the $O_{y}$ gher Iflatds themfelves. and a fingle Rock vifible half a mile to the W. of them : go on then till Lin$g^{2} n$ bears S.E. by S. from you at the dift. of 7 I.s, then go away as betore.
When you weigh again, fecer S. by E. and S.S.E. kecping in II to $I_{3}$ Fa. till you bring the a Peaks of Lingin to bear E. by N. ${ }^{2}$ and a half L.s from you : there the Tide bcing tpent, anchor again, where you will have 12 Fa. ouzy Ground, the Puto Cakutigas lying half a L dift. from you, and bearing S.W. by S. Then fand away S.E. by E. and S.E. till P Pulo liarella
comes it you will then kee is fient bcaring
N. $B$.

By th with the ca, till ) there yot in 14 Fa . S.E. by N.E. by and you mito the go thro' to \% M a $m o$, ort

## Sailing Directions from the Coaft of Malacca thro' pore, and onward towards th



F you are in the Road of Malacca, but bound to the Stratts of Sincapore, you muft go out W.by N. till you bring the weftermoft llland of Malacca to bear from you E. by N. 6 to $6 \frac{1}{2}$ Ls off; then go away large N.W. that Courle will bring you into the main Channel on the W. fide of the Sands formerly mentioned; contituc your Courle N.W. and keep there till you pafs the 'Puto Irroes; if you are without them $W$. you have Soundings tho in decp Water ; but if to the Northward, no Ground at any Deprh at all.

Then keep the Coaft of Sumatra fair a-board, becaufe of the Strcam which fets off to the Northward: when 'Pulo Parcellay bears E. foutherly; then you are to the Northward of the Sands.
A. B. The Tides here, as was noted above, are not to be depended upon, by realon of the great Frefhes which check and alter them extremely. But this may be certain, that at that Ifland to the fouthward of Malacca the Flood fers chicfly to the N.N.W. to the Northward of the Iflands, and the Ebb fets to the S.E. to the fouthward of them.
From the fame S. Illand in the Road of Malacca, the Courfe is S.S.E. in 20 to 28 Fa. going within half a $L$ of the Mand. When y nu are fo far out, as to bring' the Inand N.W. half W. dift. 6 to 7 L.s, then tack and fland away S.E. till you come off of the Cape formofa, dift. from the Port of Malacca about 10 Ls. When the Hill or Mount on Farmofa bears N.E. by N. and in 16 Fa. vot will fce $P^{\prime}$ ulo 'Pefans bears E. by S. half S. and

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## ections for the Eaftern Scas.

en Lettle comes in one with the N. Point of one of two lnands, which tter. bcc Middl; cr to the ther the fland anchor. betwecn more a. Rock vitill Linthen go
then kecping off from all thole Illands, go on S. till the Tide is fipent again ; then you may anchor in 20 Fa. the Calantigas bearing N.W. by N. trom you.
N. B. Here the Tide fets itrong upon $P_{\text {itlo }}$ Farella.

By this time you are palt all the Straits: then weighing with the Slack, you ftand along the Shore or Coaft of Matacca, till you tee the Hoz-Point under your Weather-liow; there you may anchor if you think fit within 2 Ls of the Land in 14 Fa. the Point bearing S.S.E. Ther keep on S.S.E. and S.E. by S. in 8 to to Fa. till you make Puls Thompon to bear N.E. by N. from you, dift. ro Ls; then S.E. by E. and E.S E. and you will fee the high Land of Monopin upon the Entrance moto the Straits of Ballea. Here you are at your Choice to go thro' the Straits of Bama, i, if you are bound to Sumda or to \%iza, or to go away N and N . by E . into the Seas of Bormo, or to the Coalt of Chma.

## Malacca thro' the New and Old Straits of Sincared towards the Coaft of China.

bound to out W. by - Malacta off; then the main ued ; con; the $\uparrow$ ulto dings tho ind at any
eccaufe of oulo Parhward of
not to be nich check rtain, that Flood fers lands, and
ce Courfe is and. Whan dift. 6 to off of the ut 10 Ls. N . and in alf $S$ and
the Tree Ifland. In the Sound the Tide parts, and the Flood fets leveral ways.
On this occafion of the Tides being fo differing, if you come here in the Night, and have not a leading Gale thro', you were beft come to an Anchor. Going on this Courfe, you will fee with and in about 4 ls of Caridamnm two Iflands called the Twio Brothers; bring them W.; S. juft to be fect rifing out of the Water, and the Point of Palo Cardamum W. by S. S. Then you will fee the Entrance of the Great Strait; if is known by fome Trees on a fandy Illand, ou the S. fide of the Entrance.
But the beft Courfe is thus: Bring the N. end of Pulo Cardamum W. and the Tree Iflands bearing E. dift. from one another 7 Ls , in 16 to 18 Fa. Then as foon as you fee che Bompes, or Tree Iflends, run fair by them, till the $\mathbf{N}$. Trecs bear W. by S. Then Paffiche Ifland will bear E. by N. and a fimall red lland with 2 Clumps of Trecs on it S.W. ! S. Leave all thele on your Larboard fide, and run fair by $P$ Palliucc If hand, giving it a finall Birth of $\frac{1}{4}$ of a mile, for there are no Dangers but what you tec: Then when Paflage Ifland bears N.N.E. you will fec the Straits of Sinapnre open before you, and pals the utmoft Point of Malacca, you will open into the C Chmeffi Occan.

In all your Courle thro' thete Stratts, you mult have a great Regard to the various Scteings of the Tides, for they are very uncertain ; and if is be calm and dark Weather, you had beft cone to an Anchor, ctipecially when you have run to tar out as to bring the high Land of Bintang bearing S.S.W.

Then keepthe Coaft of Suintation fair a board, becaule of the Stream which fets off to the Northward: when $P$ Pulo $\%$ arcoliar bears E. foutherly; then you are to the Northward of the Sands.
$N$. $B$. The Tides here, as was noted above, are not to be depended upon, by realon of the great Frefhes which check and alter them extremely. But this may be certain, that at that Inland to the fouthward of Malacta the Flood fers chictly to the N.N.W. to the Northward of the Inlands, and the Ebb fets to the S.E. to the fouthward of them.
From the lame S. Illand in the Road of Malacca, the Courfe is S.S.E. in 20 to 28 Fa.going within half a $L$ of the Mand. When you are fo far out, as to bring the Inland N.W. half W. dift. 6 to 7 Ls, then tack and ftand away S.E. till you come off' of the Cape lormofa, dift. from the Port of Malacca about 10 Ls. When the Hill or Mount on Formofa bears N.E. by N. and in 16 Fa. you will fee Tullo Pefaug bears E. by S. half S. and - $P$ tin C'ardam.m S.S.F. half S. making two Heads like fimall Mountans; and on the other fide, you will lee the Trecs on the Shore of Sumatra. You may pais 'Puto 'Pefang in 7 to 1o Fa. Pulo Cardamum lics S.E. by S. or S.E. half S. dift. from 'Pulo Tefiug 9 to 10 Ls: and when you are withinl 3 Ls of the former, and in that dift. you ought to kecp fo in all this part of the Courfe.
$N . B$. The Tide flows here S.E. by E. and N.W. by W. and ebbs E. by S. and W. by N. but when Pulo Cardamum bears S.W. from you, then the Flood begins to let E.N.E. and N.E. which will carry you thro' the Narrow Straits, and

# Sailing Directions for the Eaftern-Seas, from Pu the Bay and River of Camboyda, and to 

 Tcering from the Straits of Sincapore, and being bound into the Clinefe Scas, the Courfe is N . and N by E. upon the N. Coaft of Malacca, till you make Pulo Tingay on the caftern Coaft of Siam.
Pulo Tingay is a very high Rock, and may be well called fo rather than a large Ifland: There is a high Peek upon it, the higheft in all thefe Parts, and feveral Rocks and lllands lic about it, fo that it is by no means fafe to come clofe to it. The Fair Way therefore lies by another Ifland called Pulo Aure, which lics zo miles E.N.E. from it. Pulo Aure, is allo very high Land, and is known by having two little Iflands lying almoft clofe to it, one on the N. Point, and the other on the E.

From 'Pulo Aure to Pulo Pefang is 10 miles N.W. half W. you may fail between them to the mo ftnortherly, which is calld Pulo Tomoon, lying N.W.by W. dift. 3 Ls , and is the largeft of all thefe Iflands. and where you may ride in feveral places with the greateft Safety. This laft Illand has a Bay at the S. end, with a Town bearing its Name of Pefing; there is good ancloring before the Town, and good Watering alfo on the

Inand.
all the w
From N. The is plain 6 From Lat. 4.5 The $A$ From $n y$. in From Claifo in From From W. to th without mof of $t$ Bay of $S$
knomm oy $o m e$ Irecs on a lanty Illand, on the S. fide of the Entrance.

But the beft Courfe is thus: Bring the N. end of Pulo Cardamum W. and the Tiree Iflands bearing E. dift. from one another 7 L.s, in 16 to is Fa. Then as foon as you tee the Bompers, or Tree Iflends, run fair by them, till the $\mathbf{N}$. Trees bear W. by S. Then 'Pallage' Ifiand will bear E. by N. and a limall red llland with 2 Clumps of Trees on it S.W.: S. I.cave all thele on your Larboard fide, and run fair by 'Paffice I/iund, giving it a finall Birth of $\frac{1}{7}$ of amile, for there are noDangers but what you fec: : Then when Paffage Ifland bears N.N.E. you will fee the Straits of Simapore open before you, and pals the utmoft Point of Malacca, you will open into the Chimeri Ocean.

In all your Courie thro' theice S'ratts, youmuit have a great Regard to the various Scttings of the Tides, for they are very uncertain ; and if it be calm and dark Weather, you had beft come to an Anchor, efpecially when you have run to far out as to bring the high Land of Bintaug bearing S.S.W.
N. B. Off of the Rintang lies Pcidro Planko, or the Whitc Rock: Keep it S.S.W. it will carry you clear of the Sand which lies off of Gohoar Head: But do not borrow of the Sand, for it is ftecp from 23 to 10 Fa . and the next Caft faft a-ground; nor muft you come within ${ }_{1}$ Fa. of Pedro Blanko.

There is another Paffage here, called the Old Strait of Sincapore, and the Dircctions are very particular for going that way: But as the other are eftecmed the only Palfages, and few Ships go now by the Old Straits; I think it necdlefs to multiply the Directions.

Seas, from Pulo Tingay in the Bay of Siam, to boyda, and to Cochin China inclufive.
nd bciug is N . and you make
called fo nit, the nds lic ao it. The ulo Aure, allo very lying alon the $E$. r. half W. ch is call'd largeft of laccs with c $S$. end, good an5 on the

Inand. From Pulu Aure hither, you have from 18 to 20 Fa . all the way.

From this Ifland to the Bay of Siam, the Courfe is N.W. by N. The whole Bay is full of Puloes or Illands, but the Courle is plain between them, as follows.

From Tymoon' berween 'Pulo Capes and 'Pubo Redang, in Lat. 4. 57. N.

The Redang Illands are $s$ in number.
From the Redang Iflands keep the Main on board to PetaMy. in 16 to 17 Fa .

From Petany to Legore in io and in Fa. and thence to ' $P$ 'ulo Claife in 14 to 15 Fa .

From Pulo Claife, which are 3 Inlands, to Carnom.
From Carnom, or Tarnon Point, the Courle is N. and N. by W. to the Bight of fufte, the dift. is 32 miles: you nay run without or within thele Inlands of Tarnon. From the innermolt of them the Courle lies right into the '"eppy Road in the Bay of Siam.

## Sailing Directions for the

Herc you may ride in 3 to 5 Fa according as your Ship draws. From the Main, and towards the Soundings of $P$ Peppy, lies a flat Point of Land, with a Shoal ftretching from it 12 to 13 miles into the Sca. From this Flat the Courfe ftretches N. then N.W. to the River Moka Louga, where the Land falling in makes a deep Bight, and ftretches out wefterly towards the River of Siam.

This is the way to the River of Siam from the Sca. If you are bound from Siam, clpecially in the Months of $y$ une, 7 why, and $A u s u f$, you muft keep the W. Coaft on board, endeavouring, if Wind and Weather permit, to get about the $N$. Point of the Bay, which is ofeen very difficult, becaule of the Sea-breczes which blow in very frong there. But if you cannot do this till you reach the Point of Con, then go away boldly to \%uto ${ }^{P}$ 'anjang, a flat lland S.E. where there is 30 Fa . Water.

Being palt this Illand, go on S.E. for Pulo Oby in 16 to 19 Fa. This T'ulo Oby is the Centre of the Navigation of thefe Scas ; for befides what has been made publick, all that would go to the River of Cainbodia from Siam, Bantam, Batavia, or any particular way, muit make Pulo Ob by, elfe they will have a bad Courfe, by reafon of the ftrong S.W. Winds which blow hard in thole Months.
N. B. If you purpofe to go into the River of Cambodia, be well ftored with fpare Anchors and Cables, and in particular with a thouland Fa. of Warp; for you muft warp up againft the Current at leaft 180 miles.
If you come forward for Pulo $V$ by, come into 16 Fa chpe. cially if you come from the Weftward; but if you come no nearer than 25 to 29 Fa. you will be to far to the Weftward, that it will be difficult to find it, or to work up againft the Currents to reach it.
$P u l 0$ O Oby lies about 40 Ls to the Weftward of Pulo Condore, and may be called the Entrance into the Bay of Siam: off of that Point, which makes on one fide the Gulph of Siam, and on the other the Riter or Opening of Cainbodia; 'tis near 7 Ls abour, and is higher Land than any of the mands of 'ralo Condore: You may wood and water on the S.E. fide of it, and anchor on the $N$. fide, and water there alfo. On the E. fide alfo is a good Road for great Ships, very well fecur'd id good Ground.
To go from Thy to the River and City of Cambodia, your Courle is thus: Firtt bring ''Pulo Wby to bear N.W. by N. dift. about 6 Ls; there you will meet with a ftrong Current which fets to the S.S.E. in is Fa. Go on from thence towards the Bay of Starn; and having doubled the fouthermoft Point in 15 to 16 Fa . you will begin to make the northermoft, or Camboda Point, bearng N.W. from you; and having come up with It, your Courle to the Land of Cambodia is duc N. In this Couric youmult have your Lead always going : for about 5 Ls to 5 , from the Main, there is a Bank of hard Sand, upon which in tome places is but 3 Fa . ftecr Weftward clear off that Sand, and kecp on due $N$. and you will foon come into decper Water, to 4 and 5 Fa and then thoal to 4 Fa again ; when it does fo, expect foon to fee the Opening into the firt River of the Countis of Cembediul: but this is not the main River,

Timo clear Br it. In t From thi $\frac{1}{4}$ E. anc than 3 d and you l'ay du riation o

When Ifland, a due $N$. fi a high $R$ fight.

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large L run betw ther way Cambodi of 1 lland good an in 4 to 5 lengrth,

There made fo ing alor dift. T but at th venient and ftro
N.E. Ls, itres tugucfe, onc lyi There a about it wils Illa to coms Shoals, litele if named,
I. 20 ther ; t crmof into th
2. 4 fane 1 Witch: ings ab ter, an necd 11 3. E Riff ca in Lat.
lifere
ip draws. oy, lics a 12 to 13 N N then falling in ds the Ri-

If you une, 'fuly, endcavou. Point of :a-breczes do this till $\checkmark$ to $\%$ uto ter.
116 to 19 n of thefe hat would Batavia, they will ads which
nbodia, be in particuwarp up a-

6 Fa. cfpe. 1 come $n o$ W cftward, againft the
spulo Consof Siam: h of Siam, zodia; 'tis the Mlands c S.E. fide alfo. On well fecur'd
bodia, your by N. dift. rent which owards the Point in 15 or Cambome up with N. In this about 5 Ls Sand, upon car off that into decper ain ; when firft River main River,

Timoan lies in 2 d .50 m . N. Lat. there is Wood and Waters clear Ground, and good Anchoring almolt every where round it. In the Fair Way to it from the S. you have 30 to 40 Fa From this Inland to $\%$ Pulo Condore is 127 Ls , the Courfe N.N.E. $\frac{1}{4}$ E. and the Variation of the Necdle betwcen them is no lefs than 3 d .30 m . wefterly. Pullo Condore is in $8 \mathrm{~d} .40 \mathrm{~m} . \mathrm{N}$. and you have a Depth of Water from 25 to 40 Fa in the lais I'ay during the whole Courde between them, with fome Va. riation of Depth, not much.

When your Depth abates to 20 Fa, then look out for the Ifland, and you will have a fair fight of it, at 7 Ls dift. bearing due N. from you: It makes in high broken craggy Land, with a high Rock at the N.E. Poinr, which makes like a Sail at firf fight.

Ninc Ls W.N.W. from this Inland lin two finall Inands, a large L afunder: you may leave them on either hard, but not run between them; you have $I_{4}$ F.r. within a mile of them cither way. Pulo Condore lies at leaft 20 Ls from the River of Cambodia S. by E. It is not to properly one Inand as a Clutter of Illands, tho all of them uninhabired but this. You have very good anchoring to the $N$. of the Ifland, in a fine fandy Bay, in 4 to 5 Fa. 2 mile from the Shore; it lies E. and W. 5 Ls in length, and is feen 10 to 12 Ls at Sed.

There is a very good Harbour on the S. cnd of this Illand, made fo by the convenient Situation of another llarid ftretching along by the main Illand N.W. and S.E. not above a mile dift. The Entrance is at the N. part, where it is a mile broad; but at the S. end the Illands almolt touch, loaving a moft convenient Thorowfare for dimall Boats, but with a decp Channel and ftrong Currcut.
N.E. half E. from Cundore lics Pulo Cicier de Mar, ditt. 60 Ls, Atretching S.W. and N.E. 2 Ls: 'Tis called to by the Portuguefe, in oppofition to another Illand called Cicier de Tero. one lying towards the Land, and the other far off at Sca. There are many Rocks, little Iflands, and much foul Ground about it on every fide; fo that our Seamen call them the $D e$ wils Iflands; and the beft notice to be taken of them is, not to come in the way of them at all. Befides the funk Rocks, Shoals, and other Dangers which lie about it, there are feveral little Mands in thefe Seas alike mifchievous, which are to be named, only that they may be avoided.

1. 20 miles E. is a fmall Illand, and E.N.E. from that another; the Ground between all rocky and foul. From the weftcrmoft of thofe two Inlands there runs out a Ledge of Rocks far into the Offing.
2. 48 miles due S. from this Cicier de Mar lic ; Minds, calld Gane Hatch Witabae's Inlands, our Scamen call them the Witches I/fands; they are to ftcep, that you have no Soundings about them. Two miles W. of them is a Rock above Water, and 2 miles S.W. another even with the Watcr. More necd not be faid to warn you not to come near them.
3. E. from thefe terrible Rocks, at $8_{2}$ to 84 miles ditt. lies a Riff called the Middleforigh Shoal, and 48 miles E. from that in Lat. 10 d . 55 m . Lie more dangerous Rocks called Pititen's Kliptern, all dangerous.
ot 'I'ulo Condore': You may wood and water on the S.E. fide of it, and anchor on the N. fute, and water there alfo. On the E. fide alto is a good Road for great Ships, very well fecur'd id good Ground.
To go from "Vby to the River and City of Cambodia, your Courfe is thus: Firtt bring 'P'ulo Wby to bear N.W. by N. dift. about 6 Ls ; there you will meet with a ftrong Current which fets to the S.S.E. in is Fa. Go on from thence towards the Hay of Siam; and having doubled the fouthermoft Point in 15 to ${ }_{1} 6 \mathrm{Fa}$. you will begin to make the northermoft, or Cambodic ${ }^{\text {Point, bearmg N.W. from you; and having come up with }}$ it, your Courfe to the Land of Cambodia is due N. In this Comfe youmult have your Lead always going : for about; Ls to $5 \frac{1}{5}$ from the Main, there is a Bank of hard Sand, upon whels in tome places is but $; \mathrm{Fa}$. ftecr Weftward clear off that Sand, and keep on due $N$. and you will foon come into decper Water, to 4 and 5 Fa and then thoal to 4 Fa again ; when it does fo, expect loon to fee the Opening into the firft River of the Country of Cambodia: but this is not the main River, properly called the River of C'ambodia, which you muft take notice of, that you commit no miflake.

This firft River bears S.W. by W. and W.S.W. from the main River, dift. about 63 miles. Having then made this firf River, ftece away NN.E. for about 8 Ls more, kecping in 3 and 4 Fa. and an Offing of about 2 Ls ; for the Land ftretches out here to the E. for $10 \frac{1}{\frac{1}{2}}$ Ls to Cambodia ' ''oiat. Being come that length, youmay run in fair with the Land into 3 Fa you will not make the Land in 4 to 5 Fa. When you firit make it, you will fee 2 Points and an Inand in the Mid-Channel.

In the Mouth of the firft Opening lic 2 Shoals, fo that there are; Chamels: The caftermofl Chamel is the bett, having 3 lia. the other are thoal and dangerous. If you are bound up the River, go away to the W. Point, where there is deep Water, no lets than ;oto if Fa and leaving the Ifland on the Starboard-fide, keep alons under the W. Shore. Here it is that you'll want fo much warpug as was laid before ; for the City oi Comodia is semmes up this River, yet the greatelt Ships my so oo tbe very Wall, or near it, withgreat Eate and Safety.

Ater you ate come $1++$ miles up the Sercam, you pals the Nowh of another large River coming into the firft on your larboardfide; and then the main River leffens confiderably: yet the Chanel is deep 12 to 15 Fa . and the Stream not viokent, and keeping fill on the W. fide of the Chamel, you at int com. to an Anchor before the City.
A. 13. This is the faireft River for Navigation, the cleareft and deepett Chancl, and the mildeft Stream that is in this part of the World; you go thus far up, viz. i 80 miles, withour meeting cither Rock or Riff, Bank or Shoal, all the way : what are to be found, are on the E. fide of the River quite out of your way, nor have you any Occafion to take notice of them.
suppofing you are not bnund up the River Cambodia, but bein's at \%'alo Timpan would go on N. to 'P'ulo Condore, and to to the Coatt of Chime.
er on the S.E. fide cr there alfo. On os, very well fecur'd
of Cambodia, your ar N.W. by N. dift. ong Current which llence towards the acrmoft Point in 15 crmoft, or Camboaving come up with is due N . In this ng: for about $;$ Ls thard Sand, upon ward clear off that a come into decper 4 Fa. again ; when into the firt River lot the main River, ich you mult take
;W. from the main ade this firt River, ping in 3 and ${ }_{4}$ Fa. Iftretches out here Bcing come that nto 3 Fa. you will u firit make it, you hamel.
10als, fo that there the beft, having 3 you are bound up cre there is deep g the Ifland on the re. Here it is that ore ; for the City the greateft Ships at Ealc and Safety. cam, you pals the the firft on your Tens confiderably: c Strcam not vio:Chamel, you at
ation, the cleareft cam that is in this , viz. 180 milcs, Bank or Shoal, on the E. fide of ve you any Occa-
er Cambodia, but 'ulo Condore, and
vils IJlands; and the beft notive to be taken of them is, not to come in the way of them at all. Befides the funk Rocks, Shoals, and other Daugers which lic about it, there are feveral little inlands in thele Scas alike mifchicvous, which are to be named, only that they may be avoided.
I. 20 milcs E. is a fimall Ifland, and E.N.E. from ther another; the Ground between all rocky and foul. From the weftcrmoft of thofe two Inands there runs out a Ledge of Rocks far into the Offing.
2. 48 milcs duc S. from this Cicier de Mar lic 3 Ininds, calld Yave Hatch Witajze's Mands, our Seamen call them the Witches Iflands; they are fo flecp, that you have no Soundings about them. Two miles W. of them is a Rock above W' ater, and 2 miles S.W. another even with the Water. More need not be laid to warn you not to come near them.
3. E. from thele terrible Rocks, at 82 to 84 miles dift. lies a Riff called the Middlefongh Shoct, and 48 miles E. from that in Lat. 10 d .55 m . Lic more dangerous Rocks called Priafer's Klippen, all dangerous.
4. N.N.W. from Cacier de Mar dift. 6 L s, lie the Hoof vai Hollands Shoals, a large Riff of Rocks, fome under, tome above Water: Come no nearer in your Courfe from the N. than ${ }_{15}$ Fa. for none know how far the Rocks lic under Water oni that fide.
5. From Puth Condore dift. 95 to 100 miles N.E. and 12 Ls from Crab 1 Ilands, in the Mouth of the River Cambodia, lies a Shoal, which was difcover'd by a 'Dutch) Flyboat, called the E\% bow; it is not of importance for any Danger, there being 13 Fa. Water over it, but 'tis of ufe to know it for right judging your Diftances.
6. Here are feveral other dangerous places on this Coaft, which you have occafion to take notice of, fuch as Steen Clitm pens Iflands, Aberfloot Sboals, 'Pulo Cicier de Terra, Pulo To. por/hotie, and fevcral others.

But to return to the Land, 10 Ls N. from the River of Cambodia, Lar. 10. 36. N. lics a Point of Land call'd Siz. quell 'fanque ; 'tis a high Cape that may be feen above io Ls at Sea, and all Ships which run between Aber!loot's Shoais and the Main make this Point: You may fail as near it as you pleafe in 5 to 6 Fa . and anchor under the Point it celf in northerly Winds, and got good frellh Water and Provifions there.

Here are landy Downs and fmall Ihands upon the Shore, ftrctching northward a great way; and then the Land pufles out N.E. and E. near 20 Miles, as far as Sattinubur, 人, abour a

Two Ls and half off of this ifland, and about ${ }_{3}$ Ls from the Main, lies Aberfloo:'s Shoals mention'd above; 'ris a Rifif of Rocks under Water : Come no nearer withous them than ifto is Fa. and no nearer within than is to is.
Stecen Clippens It and is in a mall Range; as you come to. wards is from the $\boldsymbol{E}$. you will know you are near it, by your floailing from 25 to 12 Fa . Then you are within Gum Hone of the Mand, lying near the great Sad-Point of Thomen. You
cannot
cannot pals between the Point and the Ifland, it being full of Shoals and Rocks, many of them above Water, and which at a diftance appear like the Ruins of an antient City, and one great Rock in the middle like the Tower of a great Church.
E.N.E. from Stect Clippens Inand lies the Pulo Cicice de Terra, ditt. 20 Miles, and about , Milc offorCape Cicic de Mar. This like all the reft, is furrounded with Rocks and Dangers, and fir for nothing but to be Chund with the uemoft care : Come not within a $L$ of it on any fide, nor withing or 9 Fa. Watcr.

Berween this and the Stenn Clippen lies a grear Bay calldd Cis:er Bay, ftretching N.N.E. for $+\frac{1}{2}$ Ls to the River Boden. At the S.W. Foint of this Bay, and about $s$ Miles N. from the Pome, is a good Watering place.
Near Capte Cicicer lies a daugcrous Riff calld Brede's Sboals, Atrecthing out a great way to teaward: You muft kecp an Onfing of at Ieaft; Ls from this Riff; if you come nearer, you will be among Rocks and foul Ground; but kecp in the Offing, and you willigo ckear of all the abore-man'd Shoals and Rocks, and foul inands.

Ten to 1 L.s N.F. from Cicier de Terra lies Padaran Bay, Lat. if. 15. And farther on the tame Courfe lics Cape Aravilly de Falf, : The Cape makes high of it felt, but is more fo by a great Rock flandiag on the Top of it, like a Centincl's Box on the Point of a Baftion: And about 16 Miles from this Cape lies Fout Bay, ftretching N. by W. which delerves its Name, for in the very Mouth of it lics a dangerous foul Illand, befides bad Ground at the Bottom.

To the N. of this Cape is Comerin Bay, which gocs in N.W. hy W. you will have 30 to 45 Fa, in it ; yet 'tis rocky and thoal on the N.W. fise. All the Land upon this Coaft makes Louble and hilly, and full of Bays, Inlets and Points.
N.N E. from Cape Avarallo de Falfo lies the S. Point of a deep Gulph calld the IWefern Bay; you may know it by feveral whire Spots on the Land, and by feveral lllands near it, one of which lying narat the $\mathbf{N}$. end of the Bay is calld Row. dor Hcim; it makes bare and rocky, and is to : And junt beyond it N. lies a whole Range of Bays, one beyond another: luch as 'Pasoda Bay, St. 'jobn's, 'Pbupps's, Scluyttcn's Bay, and feveral white Sands lying dry at low Water.
Thete Bays bring you to the great Bay of Chinchent, Lat. 13. 5. The Mouth of it is known by a grear Rock in the middic riling above Water like a high crown'd Har, and two other Rocks, the fouthermoft of which makes in three Heads, but when you come nearer, it appears to be all one Rock.
Next this is Buckborn's Bay; and beyond that N.E. 'I'ulo Canto: Lat. 15.40. and diftance from the Coalt of Cbinan or $Q 4 i$ iminn 9 to 10 Milcs. When it bears N.N.W. at io to in Ls dift. it makes low, and like a flat Cheft or Coffin; but from the N.W. and at the dift. of 7 to 8 Ls, it makes in two Hills like two llands.

Youmay fril between Cape Betbang on the Coaft of Quizam, and P'ull Cantoiz: The Shore of the Cape is pefter'd with feveral Rocks, fome of which are under Water; but keep _ good

## Directions for the Eaftern Scas.

D being full of , and which at City, and one reat Church. Pulo Cicier de Cicio de Mar. and Dangers, of care: Come or 9 Fi. Water. cat Bay call'd c River Boden. es N from the
brede's Shoals, mult keep an ne ncarcr, you in the Offing, sals and Rocks,

Padaran Bay, lics Cate Avirbut is more fo кe a Ccntinel's Hiles from this d delicres its ous foul Illand,
h gocs in N.W. 'tis rocky and is Coaft makcs oints.
S. Point of a know it by fetlands near it, is call'd Row. : And jult bcond another : huytten's Bay,
uchell, Lar. 13. © in the middic nd two other ree Heads, but Rock.
N.E. T'ulo CanCbinan or $Q u$ i$\circ$ to 11 Ls dift. but from the two Hills like

Coaft of $Q^{u i}$ is pefter'd with put kcep 1 good
and dangerous Rock muder Water; among thele may be reckoned the Illands call'd $\mathcal{T}$ ulo Tyrai, tein in Number, befides great Numbers which flretch near 40 Miles, andfome of then lic off to L. E, from the N.E. Point of $A y n a m$.
N. and N. by W. from the Point of Aywan lic the Ladarone I/fands, 9 or to in number; and the grear Ifland Lantomac bearing with the Ifland Lodurong E.S.E. and W N.W. diftance 7 I.s from one another. Here the Tide of Flood icts N.E. by E. and the Ebb S.E. by E. About 4 Miles from the Ladarone Iflands W.by S. rhere is good anchoring in 10 to 12 Fa . Then kecp along N.W. by W. and N.W. as the Wind and Weather will admir, and rill you come into gFa. You will then have the Caftle and Illand of Maccao bearing N.W. half W. 4 and half to $s$ L.s from you, and the Illand call'd 7agera N.N.W. half W dint. $1 \div 1$., and jult as far from the neareft of the Ladarone I/hnds. From hence you may weigh with the Flood, and ply up to windward, for the Entrance of the Bay of Macca0, which is the River that comes down from the grear City of Ciantor, and you may go quite up to the City, if your Ship does not draw too much Water. In the Mourh of this Channel you ride very ealy in 4 to $4 ;$ Fa. good Ground, the Town of Mactao bearing W.N.W. : W. from you, dift. 3 or ${ }_{4}$ Miles. Tho the Ground is good here, yee with the Whd off Sca 'ris but a bad Road. Here 'tis ufual for the European Ships to ride, till they can agree with the Viccroy of C.anton's Officers for the Cultoms; nor muft you flir till you have a Pafs from the Mandarins to go up to the City ; bccaufe if you do not make a faft Bargain with them, they will exact upon you, when you are gone up.

If you are bound farther $\mathrm{N} . \mathrm{kcep}$ on in the fame Offing of 34 Fa. to Pedro Bhanco Lat. 22.5. being beyond the Coaft of Canton: ' $i$ is a little Rock in the Sea, clean Ground all round it ; fo that you may pals within or withour it, by Night or by Day, only keeping your Lead and I.ine in Hand: If you go whout it, keep in 26 Fa. if within it, in 13 to 14 , and you are life.

Four 1.s N.N.IV. from Tedro Flanco lies a Point fltecthing out to feaward ; and to the W. of it is Harling's Bay, where you may run in upon any Occafion, and find a good Road: but go in on the out fude of a little Ifland, which you will fee clote to the Shore. There are fome Rocks, but they are above Warer; you may go on which fide you think fit, and ride in 4 to $1 \circ \mathrm{Fa}$ good Ground. There are abundance of Inlands here, as well as before, extended all along the Shore: The beft Dirction is to kecp without them all, for we have no exact Account of them. or of the Channels within them.

Farther N. is Reais Bay, Branden Bay, and the Opening of a large River much frequented by the Chonefe Jonks: But as the Eiuropeans are not fuffer'd to trade cither in thofe Rivers or any of the Bays, they are not fully dificover'd; only that on Occafion our Ships ride in them ar a diftance, and fometimes put in for frefh Provifions, Water, ©cc. That you may know how to ride at a diftance in Branden Bat, obferve you go in
rontht N. lies a whole Range of Bays, one beyond another : luch as 'Pasode Ray, St. "fohu's, P'heppr's, Sibuyttcu's Bay, and feveral white Sands lyiug dry at low Water.

Thete Bays bring you to the great Bay of Chinchet, Latr. 13. 50 . The Mouth of it is known by a great Rock in the middie ruing above Water like a high crownd Hat, and two other Nocks. the touthermolt of which makes in three Heads, but when you come nearer, it appears to be all one Rock.

Next this is Buckiorn's Bay, and beyond that N E. I'ulo C.amthin, I.at. 15.40. and diftance from the Coalt of Chiman or (.)uiHilite g to 10 Miles. When it bears N.N.W. at 10 to 11 Ls dilt. it makes low, and like a tlat Cheft or Coffin ; but from the N.W. and at the dift. of 7 to $\$ \mathrm{Ls}$, it makes in two Hills like two Illand:

Koumay hial between Cape Betbang on the Coaft of ©uinan, and ${ }^{\prime}$ 'uls Cantoit: The Shore of the Cape is peiterid with leveral Rocks, fome of which are under Water ; bur keep a good Ofling in jo to ; f fa and you will find clan Gromed, only come not near the lland. Oppofite to Pulo Catuton comes in a large River, whofe Opening is very wide, and a fair Channel having 5 to 6 Fa. far in, but no Earopean Ships trade in ir. Upon the S. Point of this River lies the Mountain Salenbuigh, which capes to high, that it is feen as you come from the $S$. above to Milcs.

Twenty Ls diftance from Pulo Canton, and the fame diftance from (x) umam, lies 1 'ulo Componclla Lat. 16. 20. the Courte betwecn is N.N.W. and S.S.E. There is good anchoring in feveral lhaces on the W. fide. On the N.W. lie threce orher fimall 1flands, whereof one is sery high; and $;$ L.s from it S.E. by E. lics another Inand calld Componilla Fralfo; from this there runs out a Riff of Rocks S.E. far into the Sca; and about the firit Inand are abundance of Rocks and little Inands, to that you were beft not to come near thefe Iflands at all.

Putting off here from the Coaft of Quinam into Lat. i 8 deg. and into so to 90 Fa. you will get fight of the Land of Aymain: This Land is found by the moft exact Obfervation to thruft out its caftermeft Point at leaft +0 Miles more to the northward than ane of our Charts deferibe it; and the like Miftake is found is ceveral other Places on this Coaft.

Sailing, hence to the northward, you find nothing remark. able but an Inand call'd 'Pulo Tinlorfa: On the W. fide of it there is good anchoring in a fandy Bay under a very high Hill. When this Illand bears from you N.W. half N. about 7 Ls, in 6 Fa. Water, you will fee three extraordinary high Hills upon the Main, the weftermoft of which has two Hummocks upon it, and the eaftermoft threc. Off of thofe Hills lics another In and call'd 'P'ulo Tinbofic Falfo, with feveral little Iflands ahout it, all foul and dangerous.
$N . B$. At 6 to 7 Ls off from this Coaft you have 50 to 60 Fa. at to to 12 l.s Offing you have 70 to So Fa.
N. $B$. From Tinhy fic Falfo towards the E. Point of Aynam, as allo all the way betwecu the two Tinbofis, and along the S.E. fide of Aymam, the Coaft is full of little Iflands,
beyond another : Schuyttcn's Bay, cr.
Chinchen, Lat. 13 . ock in the middic ; and two other three Heads, but ne Kock.
nat N E. I'un Camof Cbinain or $\mathscr{Q}$ uiat 10 to $\boldsymbol{1}$ l. s dift. a; but from the in two Hills like
the Coaft of 9 uioc is pelterd with ; buc keep a good can Ground, only Canton comes in and a fair Channcl hips trade in it. ntain Salcnbuigh, come from the S .
the fame diftance i. 20. the Courfic d anchoring in fee three other finall from it S.E. by E. ; from this there a and about the c Iflands, fo that at all.
into Lat. is deg. the Land of $A y$ ct Obfervation to Miles more to the it ; and the like is Coaft.
nothing remark. the W. fide of it ra very high Hill. N. about 7 Ls, in y high Hills upon Hummocks upon Hills lies another al little Inlands a-
have 50 to 60 Fa . Fa.
Point of Aymam, nhof fis, and along of little Inlands.

Four I.s N.N.W. fiom Pedro flamen lies a Point fleteching nut to fasard; and to the W' of it is Harling's Bay, where you may run in uponany Occafion, and find a good Road: but go in on the out fuld of a little lland, which you will fee clote to the Shore. There are fome Rocks, but they are above Water; you may go on which fide you think fir, and ride in + to 10 Fa good Ground. There are abundance of Illands here, as well as before, extended all along the Sloore: The belt Direction is to keep without them all, for we have no exact Account of them, or of the Channels within them.

Farther N. is Beats Bay, Branden Bay. and the Opening of a large River much frequented by the Chme/e Jonks: But as the 保ropeans are not luffer'd to trade cither in thole Rivers or any of the Bays, they are not fully dififover'd; only that on Occafion our Ships ride in them at a diftance, and fometimes put in for frell Provifions, Water, ESc. That you may know how to ride at a diftance in Branden Bas: oblerve you go in N. and ride in 6 to so Fa there is gnod foft Ground, leaving two Illands which he W. by S. and E. by N. frorn you on the Starboard-fide.
Likewile at Crammeir Bay, Pifoan he Sibarc Bay, and two more on the fame Coaft, there is good riding in them all, in S to io Fa but you lad not beft come too near any of their Ports. You may run from one of thefe Bays to another all the way within the Iflands. the whole Shore being covered with Illands, and indented with Bays, whofe Names and Soundings as they have not been critically furvey'd, and are of fimall ute in our European Navigation, need no mention here.
It is enough to add here, that the Coaft trends all along N.E. and NE by N. to Pitto, or the Poine there which we call the Ciape of Good Hope, tho 1 know no Reafon for giving it that Name. There is a good Bay on the W. fide of the Cape, fecure from northerly Winds, with 6 to 7 Fa. Water and to the northward of the Cape another for foutherly Winds. This Cape lics about 6 Ls from Wirenger's Bay; and between Wircunce's Bay and Amoy is 40 Ls on the fame Courle, N.E. and N.E by N .

The going into Amoy is fomething difficult; but as there is an Englifh, Factory there, you may upon proper Signals have an Eing lill Pilot to carry you up.
N. B. Since the Eug lill $^{\prime}$, have feteled a Correfpondence at the great City of Canton, there are Pilors as well Englifb as Por. tuguefe always ready at Maccao to carry you up to it.
N. B. A S. Moon makes full Sea at Amoy.
N. B. It flows 2; Foot right up and down at Amoy on Spring Tides.

## Of the Rocks call'd the Praters.

In the Lat. 21 I 1 I. N. and Longit. E. from Batavia 9. 3o. lics a Clutter of very dangerous Rocks call'd the Praters; they lie under Warer, and are only to be diticover'd by the breaking of the Sca upon them, and fmooth Spors of Water like Gials

## Sailing Directions for the IIfa

made by the Eddies of the Breakers, and inclos'd by them. Our Pilors lay it is a cerrible Place but to behold at a diftance; it requires therefore your utmoft care to avoid them, and the more, becaute in many of our Pilot Books they are mif-placed, and laid down too far foutherly a great way : The moft foutherly part of them being placed in Lat. 20.30. whereas by the moft exact Obfervations they really lie in 21. 11. as is faid above, ftretching from thence northward.

There have been found Mafts flanding decp in the Sca, and Anchors have been taken up from among the very Rocks ; to that it may be fiuppos'd feveral Ships have been loft there. It is therefore very proper to give this notice for the Sailor's Direction, and that he may be careful to avoid the danger in time.

Sailing Dirctions for the Coaft of China, from Amoy to the Englifh Factory at Chufati, and efpecially wittbin tbe Iflands.

$Y$OU may turn it oart from Amoy between the Inc of Lifton and Qucmon, till the Chapel Illand call'd the Hole in ibe IWall bcars S.W. by W. 4 Ls from you: Bur take great care of the weftermoft Point of Quemoy, for theic runs a ledge of Rocks from it S.W. a great way into the Sca, and very dengerous they are.

From hence there is a Courfe to the N. quite to Chus an all the way within the Iflan's; which is not only extremely difficult, but alfo unfit for great Slips, fuch as the Europeans ulfially trade this way with.

But for great Ships, the Direction :s very brici, namely, to put out to Sca directly from (.) emoy E.by N. Kecping that Courfe
till they ar the Chape E.N.E. in Grounds, directly to Offing Lat ing fill w Lat. 29, v fee the Co 29. 50. w Then you Coaft, till Then ftec NE. by E. beit Paffag Paffage in, to carry y tion. Yo great Iflanc

But if $y$ upN. to th kcep on dt ftand in fo in 7 to ${ }_{12}$ for a Pilot

Alfo at po, or $N$ lcave of th which you

## Sailing Directions for the Iflands of India, from Ceyle Streights of Sunda, and Bailly, to the s

 HE norticermoft part of the Ifland of Ceylon, next to the Shoals of the Heil, is the Haven and Port of Minara; the S. end of Manara lics in 7.58 . N. Lar. 'tis known by the little Clumps of Cocoa Trees growing on the ${ }^{i}$. Bank of the River: The River admits no Ships of burdea, having but ${ }_{13}$ or ${ }_{14}$ Foot Water. The large Ships bound hither, ride a L W. of the Riter in 20 to 22 Foot Water. About Gum-fhot from the Shore before the River, runs a finall Reff, ftretching N.W. and S.E. between Manara and hippe.

The S end of the Riff and Manara River bear S.W. by S. half $S$ and N.E. by N. half $N .4$ Ls from one another: The N cnd of it and the River bear W.S.W. and E.N.E. $4 \%$ Ls between; 'tis all a ftony and rocky Riff, but there are threc feverai Paffiges thro' it, tho very dangerous, becaule with a foutherly Wind the Sca breaks over them all; and befides there is no more than 12 to it Foot Water in them.

From $C$ io Ls, an? are both the Factor appear in

From $h$ the Court Offing of teveral go S. Monji there is a ward of about 2 Fa . Wate Hunmo here, ma Land fid

## as for the Iflands of India.

them. till they are clear of the Rocks call'd the Tantees, and leaving
the Clsapel Ifland on the W. fide, diftance 3 Ls: Then go away E.N.E. in order to go clear of the Pifcadors and the Coral Grounds, which lie N.N.E. from them ; fteering as if bound directly to the Inland of Formofa: Bur having taken a fufficient Offing Lat. 24. 30. Then go away N.N.E. and N. by E. keeping ftill without all, and hold that Courle, till you come to Lat. 29, varying half a Point to the N . as by the Chatts you fee the Coaft of Clina falls off wefterly. Being come to Lat. 29. 50. which is near the full height of the Qucfan 1/lands: Then you have nothing to do but to Itand right in with the Coalt, till you make the Iflands or Rocks call'd Pathabecocks: Then fteer away N.N.W. leaving thefe Iflands to feaward NE. by E. till you make the Qucfuil Iflands, from whence the beit Paffage into Chatfan is mark'd out by our Pilots. As to the Paffage in, having fatd before that Pilots are always to be had to carty you up to the Port, I nced give no farther Defcription. You may come to an anchor on the N.W. fide of the great Inand of $2 t e \sqrt{6 n t}$, and may perhaps find Pilots there.

But if you do not think fit to take this Paffage, bur to keep upN. to the Ifland of Towto, or the Wor/bipping I/land, then keep on due $N$. leaving the Pathabccocks to the Larboard, and' ftand in for "Powto Harbour, where you have good anchoring in 7 to $1_{2}$ Fa. and there youmay fend your Boat to Chufan for a Pilot.

Alfo at Chufait you may have Pilots to carry you to $L y$ mpo, or $N^{\top} y$ mpo. whether with your own Ships, if you get leave of the Mandarins to trade thither, or with hired Junks, which you take upon Freight of the Cbinefes.
ontinent of Afia, fo far as is knowin to the Europeans.
ia, from Ceylon, inclufive to Java, Borneo, and the Bailly, to the Spice Iflands exclufive.
n, next Port of N. Lat. a Trees Imits no he large 22 Foor e River, Manara $N$. by S. : The $\div$ Ls bcrec feveoutherly re is no

From Ceyloan the Courfe lies S.by W. to Negumbo, the dift. io Ls, and to Columbo 6 Ls more on the fame Courfe. Thefe are both Dutch Factories : and as the Coaft is very difficuir, the Factory kecps Pilots always ready to bring Ships in that appear in the Offing.

From hence to Caliture and the Ifland Barberain is $15 \frac{1}{4} \mathrm{Ls}_{\text {, }}$ the Courfe due S.and S. by E. Moft of this Courle is in ar Offing of 18 Fa. and good landy Shoalings to the Shore, with Icveral good Bays and Roads on any Occafion, except in the S. Monjius. Between them comes in the River Pantura; there is a good Road in the Mouth of it, a little to the fouthward of two Rocks, which lie on the N. fide of the Entrance, about 2 Miles from the Shore, there you will have 10 to 12 Fa. Water. At Calitare there is a Fort, which ftands on a Hunmock on the S. fide of the River; if you would anchor here, mark two little Hummocks near one another, on the Land fide: Bring the Fort between thote two Hummocks, and
 H E northermoft part of the Ifland of Ceylen, next to the Shoals of the Heil, is the Haven and Yort of Manara; the S. end of Manara lies in 7.58 . N. Lat. 'ris known by the little Clumps of Cocoa Trecs growing on t.ic W. Bank of the River: The River admits no Ships of burden, having but ${ }_{13}$ or ${ }_{14}$ Foot Water. The large Ships bound hither, ride a L W. of the River in 20 to 22 Foot Water. About Gun-flot from the Shore before the River, runs a linall Riff, flretching N.W. and S.E. betiveen Manara and slipipe.

The S end of the Riff and Manara River bear S.W. by S. halt S and N.F.by N. haif N. ${ }_{4}$ Ls from one another: The N cod of it and the Kiver bear W.S.W. and E.N.E. $4 \%$ Ls between: 'tis all a ftony and rocky Riff, but there are three feveral Paffiges thro' it, tho very dangerous, becaufe with a foutherly Wind the Sca breaks over them all; and befides there is no more than 12 to it Foot Water in them.

From Manara it is + Ls to drippe, the Courfe S.W. half S. the I.and lying all the way rounding in to a Bight : There is a frall Village, with a Porthanefe Church juft by the Town: N.W. by W. from that Clurch lies a Rock about a Miles from the Shore; finall Veffels may go between thar Rock and the Shore, in s ro 10 Foot Water, but in the Puir ll'ay there is 14 to 16 Foot. Sailing from Manara along Shore, you mutt be carefiui not to come into lets than 24 for $-i=$, either to landward or feaward.

The Courfe differs excecdingly here, as you come from the fouthward or northward; but there are Pilots at Aritpe to gude you.

Froil Arippe I may fuppofe you are bound round the W. nide of Colbin; your fiftl Courfe then is to the Ifland of Ca1. de:" or Cevades SW. by W. The touthermoft Point lies in 8. 20. 1 he Sca is fo clarthere, that you fec the Bottom very phem maco Fa to you may look for funk Rocks by the naked Fye. If you come from the weftward, you mult keep the lead gons. for the Somdings are very uneven; fometimes you will have 15 Fa. then to Groun', tien 8 to 9 Fa. yet when you come within, Is and of ew sime, you will find good gradual Shoalngs. At the S. end Ah Inand is a Bay abour : I.s from the River Catapetene: We Courfe herc is S.W and N.E. $\tan ^{\text {La }}$ a length. Above this Iland lies a Riff of Rocis about = Mules trom the Shore, you may fee the Breach of the Sea neon them : There is no fate anchoring about the whole infand, flie beft is tu " $\because$ caltward under the Cocoa eirove, bur there you will have no good Shelter for wefterly Winds, nor good Ground to mochor in ncither.
From Calapeteme to the Man, indiding the Point of Chi-
 the Bay of Nazenay begins a Spit of Coral Rock, rumning along shore will within a I of (bithe, dift. from the Shore :IS: yon maticaciator it by your Lead.

From Cc 10 Ls , and arc both 9 the Factory appear in From he the Courfo Offing of feveral goo S. Monjon there is a ward of $t$ about 2 N Fa. Water Hummoci here, mar Land fide: run right it to bring th you will b
N. B.
have half tween off.
good foul ;
Two M on the S . which you have 28 to no Bottom. S.E. Betw god in $p=$ Trees; the ncarcr on being very ning far i Trees; bu of it.
From $R$ to the $\mathcal{P}_{0}$ dift. 14 Ls longing 1.0 in thc Bay, Entrance, will fuffer fo there ne Signal.
If you
lay, kcep

## Bailly, to the Spice Illands exclufive.

$n$, ncxt Port of N. Lat. a Trecs Imits no he large ${ }_{22}$ Foot = River, Manara ree feveoutherly rc is no

Iff S . the sa fimall N.W. by : Shore; re, in 8 16 Foot. not to ward or
rom the ippe to the W. of Ca : lies in m very c naked cep the netimes Fa. yet will find is a Bay here is $s$ a Riff fee the gy about Cocoa vefterly of Chi. fide of running c Shore

From Ceyloan the Courfe lies S.by W. to Negumbo, the diff. ro Ls, and to Colmbo 6 L.s nore on the fame Courfe. Thefe are both $\mathcal{D}_{\text {utcl/ }}$ Factorics; and as the Coaft is very difficult, the Factory keeps Pilots always ready to bring Ships in that appear in the Offing.
From hence to Caliture and the Inand Barberain is is 4 Ls , the Courfe duc S. and S. by E. Moft of this Courfe is in a'm Offing of 18 Fa. and good fandy Shoalings to the Shore, with feveral good Bays and Roads on any Occafion, except in the S. Monjous. Between them comes in the River Pantura; there is a good Road in the Mouth of it, a little to the fouthward of two Rocks, which lie on the N. fide of the Entrance, about 2 Milcs from the Shore, there you will have io to 12 Fa. Water. At Caliture there is a Fort, which ftands on a Hummock on the S. fide of the River; if you would anchor here, mark two little Hummocks near one anothcr, on the Land fide: Bring the Fort between thofe two Hummocks, and run right in upon it, till you come into ${ }_{4} \mathrm{Fa}$. but be fure not to bring the Fort to the fouthward of the Hummocks, for then you will be all in foul Ground.
N. B. There is a funk Rock S. of Caliture, where you will have but 12 to ${ }_{13}$ Foot Water ; and it bears S.W. by S. half W. and N.E. by N. half E. You may run in between ir and the Shore in ${ }_{4} \mathrm{Fa}$. for ir lies almoft 2 Miles off. On the off fide of the Rock you have sor 6 Fa. good Ground; but if you go off to 15 Fa. 'tis fomewhat foul ; and at 20 Fa 'tis extreme foul, with Rocks of Coral.
Two Miles S. of the Ifland Barberain is t'ce River Benetto, on the S. fide whereof is a finall Fort upon a Hill, under which you have a good Road in is Fa. ${ }_{4}$ LS off Shore you have 28 to $3 \circ \mathrm{Fa}$. and a little farther S . at the fame diftauce no Bottom. From Barberain to Ragamme is in Ls, the Courfe S.E. Between them come in feveral irnall Rivers, as Amlamgod in parricular, which is knnwn by a Garden of Cocoa Trees; the River is not navigaule; you cannot well come nearer on this Coaft than 20 Fa. The Shoalings on the Shore being very uncven and dangerous. Ragamme is a Point running far into the Sea, and cover'd with Clufters of Cocos Trees; but the C-ound is all Rocks, and foul on boch fides of it .
From Ragamme to the Bay of Galles the Courfe is S.E. by E. to the Port de Galle, and then E. by S. E. half S. and S.E. dift. I4 Ls. Port de Salle is the firft confiderable Piace belonging to the © iutch on this Shore; thay have a flroas Fort in the Bay, under which their Ships ride fafe: It is a difficult Entrance, but the Dutch have always Pilots ready, and they will fuffer no Strangers to come in without one of ther Pilors, fo there needs no Defeription, all you have ro do is to make a Signal.
If you would not go in here, bur defire to go into the Red Iay, kecp along Shore in 12 to 14 Fa . till pats'd the ftesp Red

Poi,t

Point which gives Name to the Bay; then youll fee a Riff lying aloug Shore: Keep the fame Depth along by the Riff, till you fee a fmallinand on the W. fide of the Bay, and after that a Rock above Water: Bring them together beariug N.N.W. from you; then luff up N. or N.by W. and fo you may full within a Stone's calf of the Rock : Then let fall your Anchor within $\boldsymbol{q}^{\text {? }}$ and Fi. Be very puncual in thefe Notices, then youmay run on into the Nature, a River in the Mouth of which are two or three Rocks that thwart the Channel, and one without the Ahouth of the River: That which thwarts the Chanuel is the largett. If you would come to an anchor before this River, you ment rim no nearcr in than 12 Fa. till the I and bears $\mathcal{N}$. by E. and N.N.F. from you; You may anchor with the Ruff or 1 ectge in + to 5 la.

Here are fevcral Baye, but they are all cmpey of Ships, be. ing half out of Bufincti.

From the Bay of Gollies to Wao the Courfe is ati, .'. for it Ls. On the fith of the Coaft yeur Courfic is to .. poff in 15 Fa. becaute particularly in the whal Olfing from $\%$ yekcer. lies a Ledge of Rocks, not above = Miles of Shore, and a Ruti of Sand lies our from the Shore about Musketthot: but after you are palt that R:A, you may tun along Shore to the next Harbour, in $1=$ to 14 Fa. within Canon flot of the Shere. A hate be fore you come to May, you begin to find toul Ground and youmy keop off in 22 to 25 Fa .
from Alao to the Cliephant is 16 Milcs; the Coaft turns half abour, and your Courfe which before was E. by N. is now N.E. S. halt E . from the Elephant lic the great Alowas or Shoals, the are certain Rocks, about 3 or ${ }_{4}$ Ls off Shore, ahour which there is a very great Breach of the Sca; they lic tor about a Cannon-fhot over every way: On the Offfite
 and the Man you may fall thro' in 8 to 12 Fa. but on both fides you thould be carcful not to come wethin 8 to 10 Fa. of the Shore till you are paft the height of thecte Rocks.
N.B. From Point Mondra, if you would go without the A. A.s, you menf flecr N.E. after you come to 20 Fa . and that will carry you clear.
From the Eliphant to Alvesamme is so miles. the Courfe (huefly NE. and N. by E Between the Elcepoant and Pome Yhose here lie two kufe, one m with the Shore, and the o. ther two milcs off: upon either of them is not above ; Foor Wher this is cnough to dircet any one to keep a good Offing: The dift. is ordinarily in 16 to is Fa. and be lure you come no teaser: and this thould make you take care to avord the Cireat A\%:wos. There are allo othel Shoals of Rocks, called the A.atle Abas:/s; between them you may fail in 25 to 40 Fa . afcrumats you thoot away N.N.E. in an Offing of about 4 malce, and in 20 to $2=$ Fa the Ground Sand, mixt with Coral.
Hom Abopgmme on the great Bay of Ciankanclla is 121 moke, the Conte Nus and N.W. by N. On this Coafl lics a.dreat Riff of Rocks = I.soff Shore, the Giromed between
com of a may lay

## pirections for the IJiands of India.

all fee a Riff come into this Bay on the S. fide of it, which thon they are not by the Riffi, ay, and :fict cther bearing and fo you n let fall your in thate No. River in the art the Chan-
That which ould come to arce in than from you; , s F of Ships, be:ail ${ }^{\prime}$.. for is to . poff from 1 ), $k$ les of Shore, about Musketun along Shore Ganon- hiot of you begin to to $2=\mathrm{Fa}$.
the Coaft turns as E. by N . is c great Alow:os Ls off Shore. Sca; they lic in the Off-file a thole Abavos a. but on both 8 to 10 Fa . of Rocks.
yo without the :ome to 20 Fa .
les, the Courfe but and Pount ore, and the o. above; Foot a good Offing: c you come no vord the Circat cks, called the 1125 to 40 Fa . ing of about 4 ixt with Coral. ikaiclla is 121 n this Coafl lics round betwecn
of any long, Courfe, yet the Chmels are fo decp, that you may run a good Ship in, withour cither Anchor or Cable, and lay her a-ground fife in the foft Ouze.

From this Bay to $\not P^{\prime}$ alfick' is $1=\mathrm{Ls}$, the Courfe $\mathrm{N} W$. with a moderate Offing of about + mules; at which dift. from the Shore you have about is to zo Fa. fott Ouze, all the way till you come to Molewalf, that is l'aliake: here you have a broad Shoal lies along Shore for; Ls, and runs off into the Scal almoft + L.s; it is true, the outcr pare decpens oftr, but they that fail this way with great Ships flhould not come nearer that Sand than in 6 to -Fa. for even then they are upon the Sand, and would find it thoal upon them apace if they founded it: and if you come from the fouthward, with the ulual Offing of 8 miles, (if you hold chere) you will certainly be a-ground upon it: You muft ftand off from Craikanclle, and come on in an Offing of 4 Ls at laft ; then you will have 8 to o Fa. Coral Ground, and you will know when you are juft paft the Riff, tor then at of. you will bing up clean Sand, with now and then tome linall Coral Stones.

If you are bound to l'oint de Pedra, then as foon as you are patt the Rufi, luff up round aboard it, to run in for the Shore to the nerthward of it ; then you will have 7 to 8 F fa. withun half ( , muthot of the Shore; but yon melt edpe off again when you come near l'ount de P'edra, for there are tome Shoals that way.

Fron: Malazole, or Mollelialle, to Toint do Pedra, is it I.s, the Courfe the fame as before; your fiairll'ay is along Shore as above, tomething mere than half Gunfloor, not above whole cimulht; not nearer, becaufe of a long Shoai; not bather off, becaute of a tmak Rock, on which there is but 9) Foor Wuecr, and which munt be left to Sea hoard. It is a moft dugerous place, tor befides the Rock it filf, it is fiurromeded wirh a very great Fiar of Sand; it lies near 10 mules, offin the Sca. E. and E. by N. from the Pitch of the 'Vont de Yedra: youmat by no means come withu? $\frac{1}{2}$ Fa. of it ; and if you are coming from the fouthward, and camon fetch in upon the Shore, about the Shoal of Alolewale, as above, the Winds perlaps blowing wefterly, and to carrying you our, you mult then fland away N.E. from the Shoal, till you come in 9 to 10 Fa and then ftecring N . keep an Offing of at Icaft 4 to 5 I.s, and not nearce than 7 Fa. thll Point de Pecira bears W. or W. by S. from you ; then you may haul up W. and bring the Point to bear S.W. foutherly.

When you are within the Pount, and that it bears $S$ and $S$. by E. from you 14 miles, then you may bear down upenit mto 4 and a halt Fa. where you may anchor: rhere is good even Ground and hard Sand all about it: you will know the N. part of the Point by a Church, and tome Houlcs upon it; you may make a Signal for a doutch Jilet.
W. and by S. and W.S.W. from 'Paint he Prára, lics $I H_{m,}$ mon Het, or Lamirodus off of the 'lect of Mazame, the dift.

Ahave, you mull flecr N.E. aftcr you come to 20 Fa. and that will carry you clear.
From the Elephant to Alresamme is 50 miles, the Courfe Chefly N.E. and N. by B. Between the Elephant and Pont Thatar there lie two kuls, one with the Shore, and the other two miles off: upon cither of then: is not above; Foot I wer ; this is cuough to dircet any one to keep a good Offing: The dift, is ordinarily in 6 to is Fa. and be fure you come no neater ; and this thould make you take care to avord the Circat Howos. There are allo other Shoals of Rocks, called the faitic Alhavos; beewen them you may fail in $=5$ to 40 Fa . afferwards you fhoot away N.N.E. in an Offing of about + miles, and in 20 to $2:$ Fa the Ground Sane, mixt with Coral.
From Itresamme to the grear Bay of Ciaitkaitella is 121 mike, the Courle N.byW. and N.W. by N. On this Coall lies a great Riff of Rocks 2 I.s off Shore, the Ground berween very foul, and almoft all Rocks: To avoid this otherwitic incritable Danger, if you are in a great Ship, you muft keep at lcaft an Offing of 8 miles. nay j Ls is little enough, cfpecially if you have the Wind oft Sca. The Mark for this dangerous place is a high Hill up within the Country to the fourhward, but which is leen far at Sea, called the fryars llood; bring this $I$ nod S.W. by W. from you, and then you are juft abreait of the Rocks: if then you would ftand in for the Shore, you may, and anchor mo la. a mile from the Shore, in the Mouth of the Rewer Rutacial. The Bay of Trimkinally, or Ciankiaclle (tor it is the tame place) goes in W. at leaft 2 L.s m leugth. Here are feveral very good Havens, in whech the largeit Shups may ride fecure in all Wuds. There are 3 Rivers
if yc on Win mult in 9 4 to W. the

## Sailing Direftions fiom Priaman on the Ifland and thero thoge Streights to Ba

 EING in the Road of $P$ iaman, to which voulave alicady had Diecetions, your Courfe from thence towarc: the Streigots of Suluda is S. by E. holding to till you come in $=\mathrm{d} . j 0 \mathrm{~m}$. S. L.at. then S.E. to $; \mathrm{d}$. $10 \mathrm{~m} . \mathrm{th} \mathrm{en}$ S.E. by S. to 5 d .

In 4 d. 10 m . there is an Illand lies off, near the Main calIed Sea-Conft Iflumd, where you may ride in 7 Fa. Oppofice to this Illand in + d. 10 m . is the Lingli/h Factory of Bencoulin, or Bencola; it is dift. from the Streights of Sinteda 50 Ls , without any place of note between, a bold clean Coaft, and no Dangers but whar are plain to be feen.

To anchor in the Road of Bencoulin, bring Sca-Conft Ifland to bear with that Port S.E. and N.W. and the Union Flag-Itaff on the 7 onk Foit E.by N. : E E dift. = Ls, and Sillabar Hill N.E. half E. dift. 10 miles; then you are in the beft of the Road, and in 10 Fa.
N. by E. half E. from you is a Town called Single de Moon: there is a Cope by it, which bears from you as you ride E. half
es, the Courfe ant and Pome re, and the otabove; Foot a good Offing : you come no ond the Civeat ks, called the $1=5$ to 40 Fa . gh of about 4 xt with Coral. karaclla is 121 this Coaft lics fund berween ; otherwile inmuft keep at gh, clpecially this dangerous he fourhward, Hood; bring are jult abreait ac Shore, you in the Mouth 43, or Crathleaft 2 Ls m in whech the e are; Risers

Patre yot mur oy
if you are comung from the fouthward, and camot fetch in up. on the Shore, about the Shoal of Nolewate, as above, the Winds perhaps blowing wefterly, and to carrying you our, you muft then fland away N.E. from the Shoal, till you come ing to 10 Fa. and then flecring $N$. keep an Offing of at leaft 4 to 5 I.s, and not nearer than 7 Fa. till Yoint de Pecira bears W. or W. by S. from you; then gou may haul up W. and iring the Point to bear S. W . Southerly.

When you are within the Pomt, and that it bears S. and S. by E. from you 1 q miles, then you may bear down upenit mto 4 and a haltifa. where youmay anchor; there is good even Ground and hard Sand all about it: you will know the N. part of the Point by a Church, and fome Houtes upon it; you may make a Signal tor a Dutch Pilor.
W. and by S. and W.S.W. from Point id Pedra, lics $H H_{m,}=$ mon Heil, or Lanrodate off of the Meth of Mamare, the dat. 8 Ls; but in your Courfe 'ris more, becaufe you muft fand off trom the Land to avord a Shoal, on which there is but 3 . Fa. When you are far enough off, you will lie the Fort ot the Herl, bring it S.E. from you, and tecer with it to into $\downarrow$ and a half Fa chere you may ride very bife, and ingood Ground.

Irom the Hal there are divers Channcls within the Mands to \%ctrapatam, Yathanden, and Mlamanc, and feveral other places : the Courfe is various, being a Circle within the great Bay; the Pallages are indeed much freyuented, chicily by the Dhith, bur not by great Ships: And as all thefe Iflands are in the Poffelfion of the $/$ )utch Factory, there are Pilots to be had from place to place, fo that the particular Deicriptions may be omitted without Injury to the Sallor.

## on the Ifland of Sumatra, to the Streights of Sunda, Streights to Bantam on the Ifle of Java.

hich ;oulave rom thence toE. holding to en S.E. to $; \mathrm{d}$.

- the Main cala. Oppofite to of Benconlin, : Siduda 50 Ls, Coalt, and no
ica-Conft Ifland Jnion Flag-ftaff 4 Sillabar Mill the beft of the
ingle de Moon: you ride E. halt
S. the dift. is about $;$ Ls. There is a dangerous Riff of Rocks under Water, fhooting out from that Cape fraic into the Sea, towards Prulo Reusin, near a mile. Between Bencou!in and Pulo Rousiul is 45 IS , the Courle N.W. by N.

There is likewife a dangerous Shoal called Sillabar, lying W.S.W. from the little Sea-Coaft Ifladid: the Sea breaks violently upon the Shoal: the high Land is allo called by the fame Name : the Depth along Shore is $5+$ Fa. but by the Illand only 16.

From hence your Courfe is E S.E. till you come almoft to the Point of the streigbts of Sunda; entring the Stueights, you may fec both Mains at once, riz. Sumatra on your Larboard, and Yava on your Starboard Bow: Yava is high within the Land, but low by the Sea Shore; $S_{i m a t}$ a very uneven: The Current in the Paffige or Streighe fets 12 hours one way, and 12 the other, and fometimes fo trong, that you cannot flem it with a frelh Gale.

## Sailing Directions for the Ea

If the Wind flackens, and you cannot hold it thro', you may go to either fide for a Road; there is good anchoring go which way you pleale. There is an Inand off of Sumatra, which properly forms a Streight; if you would anchor on that fide, go nearer the Main than the Inland, becaufe of a Rock which lics midway between : but 'tis cither above Water, or to near the Water's Edge, that the Sea dilcovers it by breaking upon it : it lies W. by N. from the Point of Sumatra.

The Streights of Sunda lie in at the Entrance due E. and W. but lic thro' N.E. and S.W. for when you are about 'Palimbam Point, which lics S.E. by S. of the Headland of Sumatra, and which makes the Ealt cntrance of the Streights, your C. ric is E.S.E. and S.E. by E. till you make the 'Pulo P'aujang, dift. from the fiad Point of Sumatra 9 to 10 Ls. you may go on either fide of that Ifland, but come no nearer than 6 Fa. In palling the Inland you will fee a round Hill on the main Land of fava, bearing S.S.W. from you; that Hill thews it felf directly over the City of Bantam: keep the Hill in the fane Point, and run right in, you will come to the 5 lllands called $P$ ulo Hemas, there you may ride in ${ }_{4} \mathrm{Fa}$. and what more you pleale, ouzy Ground.
N. B. The Tide flows 5 Fa . right up and down in the Road off of Bantam.
Suppofing you are coming up the W. or S.W. Coaft of Gava towards the Sitrights of Sunda, intending to enter the Palfage, and are fallen within the great Bay of the faid weftern Coaft, from the fouthward; you will then find two lllands in your Couffe to the N. firft the Ifland called Trouvers, which bears N.W. from the faid Bay, dift. from the Red 'Point on the S. fide of the liad Bay 44 Ls.

The Fair Way from this Bay lies under Shore, from the fecond Point 24 Ls , to the faid ifland Tronvers: here you have a clean Coalt, and from 20 to 30 Fa. all the way, your Courfe W.N.W. From Trouvers to Clapps Ifland the dift. is 10 Ls, the Courfe W. by S. Bring Clapps Ifland to bear from you W.S.W. at about 4 Ls dift. then fteer for Gava Head, and the S.W. Point of the Streight of Sunda, your Courfe will then be N . cafterly.

When you are a-brcaft of the Ifead, you will open the N . Point.and over that Point you will fee 'Princes Ifland trending S.W. tewards you, into the Sea. The diftauce from the S.W. Point of the Streight, which makes the N.W. Point of 7ava and the S. Point of Princes Ifland, is 12 miles, the Courfe in and about the Nouts 'Point, which is called the Firfl Point, lics E. by N.

Keep clofe aboard the N. Point's opening the Streights, where you will have 17 to 22 Fa . Coral Ground. Being about the l'oint, you open a decp Bay, which goes away S.E. In this Paflage between the fland and the Sccond Point, which is the W. Point of Welcome Bay, you have 25 to 30 Fa . and in the Offing no Bottom.

When you pals this streight, the firft Port on the E. fide of

But if $y$ /ava, yo of 7ava

In failin of ufe, it ter'd the $S$ Banca, yo Courle, or the Depth you the Di that of $B a$ When you fee a fmall ing $4 \frac{1}{4} \mathrm{Fa}$. of Sumatra

Pray no the Night, the Curren Moon, ca no regular on the $S u$ Banca bef Endcavour Pallambin prifing Fo Skill as wo the Rocks

Neither to the Inla fo far weft Book, you when you ing off in in 18 Fa . ry you wi Currents Rule, and are alway qual Offin jang, onl 20 Fa . for may be ot ger of ru Point $P_{a}$ void that

## Sailing

 Streigh Great duras,The S.
N.W. fid
in 18 d.

But if you have occafion to fail along the N and E , Coar? of .7ava, you may remember to keep a large Olfing, all that fide of fava being flat off for a good way from the Shore.
In failing thro' the Streights of Banca, however now out of ufe, it may be neceffary to take this Note, That being entter'd the Streights, and in fight of Lucapara on the Mand of Banca, you need no longer oblige your felf to this or that Courfe, or to any failing Inftructions, but mind your Lead, the Depth and the Grounds, and them only; and this will give you the Diftances, as well from the Shore of Sumatra as from that of Batca; the reafon is becaule of the violent Current. When you have the Ifle of Banca E.N.E. off, then you will fee a fmall Pico in the middle, and have the fhoalef Water, being $4 \frac{1}{4}$ Fa. only; if Banca bears SE. then keep to the Coaft of Sumatra in 5 to 6 Fa.

Pray note, That you ought not to pafs thofe Streights in the Night, becaufe of the fudden and uncertain Alteration of the Currents by the Frefles, which at certain times of the Moon, caufe them to change their Seafons, fo that they keep no regular Courfe ; by which means if you lofe the Soundings on the Sumatra fide, you may be driven upon the Shore of Banca before you are aware, and notwithftanding your urmof Endcavour to avoid it ; particularly the Stream of the River Pallambin comes down on thofe Ocesfions with fuch a furprifing Force into the Streight, that you will need all your Skill as well as Strength to keep your Ship from running upon the Rocks off of Monopin, which is the W. end of Banca.

Neither muft you depend upon your Chares for your Courfe to the Ifland Linquin, which is laid down by them to ftand fo far wefterly, that in a dark Night if you work by your Book, you will certainly go on Shore ; the fureft way is, when you are paft Banca, to heave the Lead conftantly, kecping off in ${ }_{12}$ Fa. till you come to $P$ Pulo Parra, and from thence in 18 Fa. (not an Inch deeper) to Linquinf; that Depth will carry you within 5 Ls of Linquin, and there you will find furions Currents again; but ftill keep your Depth of Water for your Rule, and you caunot miftake : for the Shoalings of the Coaft are always the fame : in 18 Fa. you are certain to be in an cqual Offing. It mult be the fanc from Linquin to ©Puio Panjang, only that there you may deepen your Courfe from 18 to 20 Fa. for if the Current thould fet you into the Streights, it may be of bad Confequence. Alfo the other way there is Danger of running upona Riff of Sand, which lies to the S.E. of Point $\mathcal{P}$ anjang ; and if you kecp to your Depth, you will avoid that Mitchief alfo.

Sailing Directions for the South SPart of Java, and the Streights of Bally, being the direct Paffage out of the Great Indian Ocean, to the IJlands of Celebes, the Maduras, and the Moluccoes.

The S.E. Part of the Ifle of Gava, and the N. Point and N.W. fide of the Ine of Bally, make the Streights of Bally, in 18 d. 6 m . S. Lat. The S.E. Point of $7 a=a$ runs out into
W.N.W. Frombrouvers to Clapps Ifland the dift. is 10 Ls , the Courfe W. by S. Bring Clapps Ifland to bear from you W.S.W. at about \& Ls dift. then ftecr for "\%ua Head, and the S.W. l'oint of the Streight of Sunda, your Courte will then be N. cafterly.

When you are a breaft of the Mead, you will open the N. Point, and over that Point you will lee 'Princes $1 /$ land trending S.W. towards you, into the Sca. The diftauce from the S.W. Point of the Streisht, which makes the N.W. Point of "/ava and the S. Point of Princes /flumd, is 12 miles, the Courfe in and about rhe Nortb Point, which is called the Firfl Point, lics E. by N.

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When you pals this stright, the firf Port on the E. fide of \%ava is Bant anll, detcribed as above. From Bantam there is as utual Pamage northward, leaving the E. part of the Streights of Sunda on the Larboard fude, and paffing towards the Coaft of Malacca and Chuma by the Streights of Banca: But fince the Ensli/h Factory have remov'd from Bantam, and the 'Pcpfer Ships go no farther than to Bencoulin and the Coaft of Sumatria, this Courle is not to much in ufe by them; the finglll, Ships chusing to fail by the N. Point of Sumatra, the siresests of Malacea, and of Sincapore; or if they do pafs by fialia, it is no more foom \%aza, but about by the S and of the Illand of S'mmatro.

Nataitu lies from liantam E. by S. being the greateft Road for Shipping in all the Itudes; it is dift. from the Strcights of sumda $2_{5} \mathrm{Ls}$, from 'P'ulo 'Panjang in the Entrance to the Bay oflo of Rantan 20 Is. There are $1+$ or 15 Illands lic in the Bay off of the Port of Rataria; which llands make the Riding there to tate, the Ground allo being very good, that they are as to many Harbours: Thole Ithands are indeed of little other ute, except for producing lome Fruts, "hich they fupply the City with as Provifions. Batavia lics in Lat. 5 d. 50 Im. S.

The Haven of Rataria goes in due S. in the bottom of the Buy, and between 2 Heads, and is capable of receiving very grooi Ships; but as you have Pilots always to carry you in, if you have fift obtand leave of the 7)utch Governor to go into the Post, whach is not eafily granted, there is no need to lay more of it.

Beyond Bett we: E . there is nothing of note, as to Navigathon on the Ille of \%/w'z to the Straights of Bally, which are deferibed by themeles. From this Coaft, as is faid above, they go away N. to the Streiphts of Banca, in order to pafs northward to the Scas of Clime, and to the Coafts of Ma. laca, Syam, Ciambodia, Cochan China, and to Chima and Fa-

dift. is 10 Ls, car from you licad, and the urfe will then

Il open the N . fland trending from the S.W. Point of "/ava the Courfe in Firfl Point, the Streights, Being about y S.t.. In this , which is the Fa. and in the
the E. fide of tam there is as the Streights vards the Coalt ${ }^{1 C a}$ : But fince and the Pep1 the Coaft of by them; the Sitmatra, the hey do pais by $y$ the S. cnd of
grateft Road de Streights of nce to the Bay ; lic in the Bay ke the Riding that they are 1 of little other hey fupply the d. 50 mm. bottom of the receiving very arry you in, if mor to go inis no need to
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This is the Streight which the Dutch Ships pafs when they fail for the Spice Iflands, withour paffing the Streigbts of Sun$d a$, or ftopping at Batavia: in which Courfe the firft Land they make is the S.W. Shores of Java; from whence they ftecr E. by S. to the S.E. of that Ifland, which opens the Streight of Bully. That Streight goes in W. as far as the E. Point of the Bay of Ballambouang : then the Courfe changing, you go from the faid E. Point over to the Shore of the Illand of Bally N. by W. and then back again over the Paffage of the Streight to the E. Shore of the Inand of Fava. In thefe Crof: fings of the Channel to and from the Cape Gounoinkin, and back again to the Ifle of Bally, you have from 20 to 36 Fa . but in the Mouth of the narrow Channel, croffing to the E. Coaft of Fava, from 10 5a. to 5 and $5 \frac{1}{2}$, with which Depth you enter the Streight.

The narrow of the Streight goes thro' N. and S. and the Fair Way in the Outlet lies N.E. the Courfe going away E. to avoid a foui Iflanu cailica $P$ Pulo Snaan which lies off of $\mathcal{F}$ fava, under the Lec of Ballambouang Hills, a Range of high Mountains, which lic parallel with the Streights for 7 or 8 Ls on the " ava fide.

From thefe Streights the Courfe is N. by E. to the E. end of the Madura llauds, and to the great Illand of Borneo ; or N.E. to the Celebes, or due E. to Amboyna, Banda, and the other Spice 1/lands, called the ivoliccoes.

But as thofe Parts are peculiar to the Commerce of the Dittch, and that no Ships (or very few) trade in thofe Scas but themlelves, we have no Survey of them by any Eughith Mariners, or any foreign Survcy tranflated inro the Englifls Tongue: fo the Author of this Work camot be accountable for omitting them.

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\text { * } \mathrm{Hhh} \quad \text { Sulitug }
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## Suiling Directions for the Coaft of Afia in the Point of Natolia, to Damiata at the Mot of Agypt exclufiee; with the Afian Ifland



H E Afian fide of the Hellefpont was neceffarily ine cluded in our Directions for lailing into and out of the Gulph of Conftantinople.

The firft Land of the Leffer Afiu, or Nitholia, S. from Cape Bobabora alrcady deteribed, is liogia $V^{\prime}$ ecth. or Vecciu, a litele more than W.S.W. from the E.Point of the Mhand of Metclin, ditt. from the haid E. Point ${ }_{4}$ L.s : the Coalt between is tair and clean, and Ships pals withour any Ditficulty, as has been faid, in 7 to 8 Fa. to and from the Cape, and to to Cape \%anefait.

Dircetly W. from the tame E. Point of the Inand, and dift. but = Ls lice a very good Haven called Porto Giero; it thands fair on the N fide of the Channel betwecn Metclin and the Ahin, and lies diftant from the Channcl betwecn Scro and Arsentiro 15 Ls N.E. by N.

The Entrance into this Haven is exceeding narrow ; and the S. Point reaching our beyond the N. Point, it is as it were cloted. fo that you hardly perecive there is a Haven, till you are entred the Channcl. There are many Marks by which to direct the Entrance, but a Metelin Pilot, who will come off to you with a Waff, is worth them all.
Ninc Ls S. by W. from this Haven lics Cape Barbanoli, being the S. Point of the Gulph of Smyrm; and a I.s E:S. E. lics the Point of logig Noara, E.N.E. from Cape Barbathole, on the S. fude of a large Bay, called amticntly the Gulph of AElu, or Flatitua.

The Inand of Metclin has been deferibed: the Coaft affords one extraordinary Haven, which lics on the E. fide, dift. from
 Cattle of Metclent flands, is a very good Road for S.E. E.NE. find N.E. Winds ; and to the northward of the fame Cafte, dift about a Gumblhot from it, lies a litele Ifland clofe to the main Inand Icaving jut room between them for Ships to ride. as in a Harbour. This Road fecurcs you from S.E. S.W. and N.W. W'inds. Alfo a litete to the Weftward of that little thand you may lic fheler'd from all Winds, except N.I. N and N.F.

To fail betwecn Metclin and the Main, this only Direction is nececfiary, cize not to kecp in the Mid.Channel, but to cither fide which you pleale ; for in the middle lie feveral dangerous Rocks under Water ; but kecp on cither fide, till the Cattic Moleco upon the Illand come abreaft, then you are fure you are paft the Rocks, and may go boldly in the Mid Chanucl要保.

There is ancther good Haven at the W. end of Metelin, called Porto Sertur, called to from Cape Seguri juft by it :


## eflions for the Coaft of A fia in the Lecvant.

## of Alia in the Levant, from the Dardanenes on the a at the Mouth of the River Nile, and the Frontiers

 e Afian Iflands in thafe Seas inclufive.s necefliarily ine nto and out of
, or Niatolin, S. abed, is loysia I the E.Point of oint ${ }_{4}$ l.s: the is withour any Ifrom the Cape,
fland, and dift. Giro; it ftands letclin and the cn Scio and Ar-
g narrow ; and it is as it were Haven, till you rks by which to 0 will come off

Barbanola, beI L. E.S.S.E. lics Biatrintiole. on Gulph of $A: l h$,
the Coalt affords .fide, dift. from t, on which the for S.E. F. NE. he fame Caftle, and clofe to the or Ships to ride. h S.E. S.W. and d of that litule s, except N.W.
his ouly DircctiChanncl, but to - lic févcral danher fide, till the ien you are fure he Mid.Chanucl
nod of Metclin, suri juft by it:

Winds, and there Ships ride, when the Winds for going up the (iulph to Smy) ha are out of the way: Youmay always know the Town and the Roadallo, by a Row of Windmills 6 or 7 together, on the Hills behind it.

The Road is belhind fome Iflands which lie to the N . of the City; and thofe Iflands ferve to break off the Sea, and make the Riding caly, as well as lafe.
S.W. from the Mouth of the Gulph of Smyrna lics the Ifland of Scio; at the W. end of ie itand Ieveral Light-houfes, and off of the S.W. Point lies a large Rock called Venetico, 'tis clean Ground all round it. and the Channel between it and the main Inand is good; youmay run boldly thro' the Chanael on any fid.

From Venetion to the Channel within the main Illand is N.E: ncar a Ls. Being paft the Poinr, you go away uorthward towards the Port and City of S'in : you will fee St. Helene's
 a great Iight houte upon it: here 1 mutt ware the Shore, for there lies a flat Pome of Sand v.. .uere.

Paffing the Pont, you have the City in view; fo you may go directly upon it without a Pilor, and anchor before it in is to 20 Fa. off of the Haven's Mouth. The City lies under a great Hill clofe to the Sca Shore : Right before the City is a Mole where Ships of any Burden may ride as in a Millpond; the beft of the Road is to the northward of the City, in 20 to ${ }_{25}$ Fa. about a mile from the Shore: The Marks tor anchoring in that Road are very plain. to that no Pilot is wanted for that Part. Bring the midd!e of the Caftle to bear W.S.W. with that one Mark you may anchor where you pleafe without the Mole, but oblerve that to the northward of the Mole is the beft Riding.

To go between Scio and the Main, the Courfe lies N. by W. and S. by E. in and out over againft the Town. On the End of a Riff of Rocks, (but flanding in the Water) you tice a great Stonc Light houle or Lanthorn : if you would go into the Haven, this is your Dircction for the Entrance ; kecp about a Ship's length to the northward of it, and fail boldly with 3 Fa. ar low Water. The beft of the anchoring off of this Lanthorn, is 10 to 12 Fa the I.anthorn bearing W.S.W.

North of the Port of Scio, dift. i L from the Point of the
 you may fec it very plain as you fail by: Before it lies the litthe Inland of St. Gicorge. If you would go into the Haven, you muft go clofe under the Illand, on which fide of it you plafic. When you are entred the Haven, you may run up as high as you will, and moor your Ship with a Faft to which

Jiorit lyeria; Ls. Onthe W. fide of the Point, on whech the Catlle of Metelin flands, is a very good Road for S.E. E.N E. and $\therefore$ E. Winds; and to the northward of the fame Caftle, ditt ab, it: 2 winthot from it, lies a little lfland clofe to the main Ilara leaving jutt room between them for Ships to ride, as: in a Harbour. This Roadfecures you from S.E.S.W. and N.W. Winds. Allo a little to the Weftward of that hetle lland. you may lie thelter'd from all Winds, except N. $\mathrm{V}^{2}$. N. and N.E.

To fail between Metclin and the Main, this ouly Dircction is neceffary, rize not to kecp in the Mid.Chamel, but to either fide which you pleale ; for in the middle lie feveral dangerous Rocks under Water; but keep on cither fide, till the catle Molico upon the Itland come abreaft, then you are lure yousac patt the Rocks, and may go boldly in the Mid. Chamel asian.

There is ancther good Haven at the W. end of Metclin, cailed Poiro Sertut, called to from Cape Seguri juft by it: There is an Inand juft betore it with fome Recks : 'tis oblervable, that being to the fouthward of this Haven with a northerly Wind, 'tis not poffible to get in, for the northerly Wind blows right out; it is an excellent Haven, deep and late, no Recks except one above Water, and no Shoals or foul Ground in any part of it.

Cape Seguri is the W. Point of the Ifland, it lics with Cape Bobabora N.E. and S.W. dift. from that Cape 6 Ls , from.I $/ 1 / c^{\prime-}$ $r_{a} \mathrm{I}=\mathrm{Ls}$, and from Scio 10 Ls .

Iffer is a fmall Inand lying off of Scio due W. there are leveral finall lilands about it, but one in particular on the W. fide of it, matc a Road between, equal to a Harbour, and with this Advaeryo, that you may fail in at one end, and out at the other, as the Winds may tall, or as your Voyage directs. Here you ride perfectly thelter'd from moft Winds, efpecially from northerly and toutherly: Here is indeed a Rock which muft be avoided, being 7 to $\&$ Foot under Water ; but palling that, youmay anchor where yo pleale.

We are now come to the Gulph of Smyrna, famous for Shipping, and as famous for the Conveniency of the Harbour, and hate Ridng tor the greateft Ships. The llle of Scio lying in the Fair líay of all European Ships coming from the S. Plots are to be had there to carry any Ships up ; and if not there, you take them at Caper Rarbanola: If you come from the N. they are likewife to be had at Fogia Nooun, which is oppofite to the Cape on the E. fide; if at neither, you are ia no Danger.

For directing your Courfes Ls into the Gulph, you nead no Pilot at all, the Fintrance being at lealt 4 Ls wide, with so to jo Fa. in the Fiair IV ay to Long Ifland, and to the S. of the Illand allo, leaving it on the Starboard fide; nor is there any thing dangerous or difficult in the Paffage for near if Ls Lailing into the Gulph: then indeed the Pilot's Skill may be wanted, for which reaton ithy no more here, but leave it to them, and retum to the E. Point of the Gulph; there the iont of loggra Noza thews you a very good Road in all
onint, su which the oad for S.E. E.N E. of the lame Caftle, Ifland clofe to the 11 for Ships to ride, rom S.E.S.W. and ward of that litele iads, except N.W.
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V. and of Metclin, $S_{\text {Segur }}$ juft by it: Rocks ; 'tis oblerHaven with a northe northerly Wind deep and lafe, no oals or foul Ground
ad, it lies with Cape c 6 Ls , from. If $f_{c}$

Jue W. there are fecular on the W. fide Harbour, and with end, and out at the ir Voyage dircets. it Winds, efpecially deed a Rock which Water ; but pafling
myrna, famous for cy of the Harbour, c llle of Scio lying foming from the S. ips up ; and if not If you come from a N Nön, which is at neither, you are
ic Gulph, you necd 4 Ls wide, with 1d, and to the S. of $d$ fide; nor is there Tage for near 14 I.s Pilor's Skill may be ere, but leave it to Gulph; there the good Road in all
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North of the Port of Scio, dift. i L from the Point of the Inand, lies another very good Haven, call'd Forto Delfyit; you may lee it very plain as you fail by: Before it lies the little Illand of St. George. If you would go into the Haven, you mult go clofe under the Inland, on which fide of it you pleafe. When you are entredthe Haven, you may run up as high as you will, and moor your Ship with a Faft to which Shore you pleafe, keeping one Anchor out to icaward. There is : Bank in the middle of the Road, with but 9 to 10 Foot Water on it ; but yous go clear of it by kecping to cither Shorc. From Scio to Smyrna the Courfe is E.N.E. between the little Ill.nd Spalime'ntori and Cape Barbanola.

Spalmentor: is a limall Illand, lying between Scio and the Main, having feveral other limall greee Illands about'it; the Channel is good thro' on cither fide, but the ufual way is berween the Illand and the Cape, as above.

We have already deferib'd the feveral Courfes from among the Iflands, and from the European fide of the Archipelagne to Smyrna: But there is a Paffage allo on this fide among the Afian Iflands, and which is the ordinary Courle between Simyma and E:ypt, and between Simyrma and the other Ports of the Leviallt; which is therefore ncedful to be defernbed. This as it relates to the Coalt of the Leffer Afta, is the Paffage from Stantio to Smyrna, or between Stantio and the Main to Smirna.

The Ships come to the Road of Stantio, cither from Cape Solomon at the E. cnd of Candia, or from Cape Cormacci on the $N$. fide of Cyprus; and paffing between Rbodes and the Main by Ciape Grio, being the S.W. Land of Afia, come to an anchor in the Road of Stantio.

From the Road of Stantio you mult go out at the N.W. Point of the Road, where fome Wind-mills are feen, giving the Point a Birth of near half a Mile, or keep the MidChannel rather in your paffing, for on the Ifland fide there is a Shoal for half a Mile, and on the fide of the Niain lies a Rock or two under Water, and one above : There are alfo many Rocks and Illands to the N. of Stantio, but they are all above Water, you mult leave them all on your Starboardfide, and keep on N.W. by N. rowards the finall Ifland of Guideronfit: Leave that alfo on the lame fide, going betwecs it and two little lilands call'd Cupra and Calme:o. This is the faineft and beft Pallage, the other ways being nor to gnod, we nerd give no Direction for them.

Having

## Sailing Directions for the Coaft o

Having got thro any of thefe Paffages, your Courle is N.W. by N. to the W. end of Samos, diftance from Stantio 15 Ls; and from the Paffages 13 to 14 Ls. There are many litele Iflands to be feen as you go, fome on one Hand, and fome on the other: But as the Paffage is bold and your Courfe the fame, you will be cafily directed.

Of thole Illands, one call'd Fornio oppofite to Samos makes that which they call the Bocca, or Channels of Samos: The Paffage is 2 Miles over, and the Shore on both fides clean and ftecp too. The Ifle of Samos affords no Haven or Road on this fide, nor is it of any ufe to the Navigation of this Courle, except by its height, which is fuch as that it is feen 20 Ls at Sca, to give notice where the Bocra lies.

Nucaria is a lmall Ifland dift. 2 Ls from Samos: The Courle is W.S.W. and E.N.E. it is to be left on your Larboardfide in the Paffage to Smyrna. From this Bocca de Samos your Courle to the Gulph of Smyrna is N.N.W. and N.W. by N. this carrics you to the Channcl of Scio, between Scio and the Main, which is deferib'd alrcady; from whence your Courle to Smyrna is alfo defcrib'd.

The next lland in this Courfe S. from Smyrna is that of Rhodes, a Place lefs famed in Navigation than in Hiftory: it lies at the Entrance into the Archipectague, in that we call the Leciant Seas, it L.s. N.E. by E. from Scarpanta, and 10 Ls. S. E. from Cape (irio.

The Coaft of Rbodes lics high, and is feen in Mid-Chanuel on the Larboard-fide, at the faime time as the Main of A/fia is from the Starboard-fide. From the S E. Point of it lies a great Rock, which makes at a diffance like the Hull of a Ship; and to the N . of that Rock another, diftance from the Inand ahout a L. Between thefe two Rocks, on the E. fide of the Hland, is a good Road, tair clean Sand, and what depth of Water you pleale.
$\lambda$. $B$. Here you may have frech Water, what you pleafe,
by digging for it in the falt Sand on the Sca Shore.
Oppofite to the Ifle of Rhodes, and clote aboard the Main of Natolia, lies Caffle Rofla, in a fimall Illand with a Caftle upon it, at the Bottom of a Bay; between which and the Scafide are fome Houlcs, where you may water allo: And behind the Illand, between it and the Main, is a very good Road, equal to a Haven, fecur'd from all Winds, from Cape Traquille on the E. cnd of Rhodes to this Caftle : The Courfe is E. by $N$. diftance 29 Ls.

The next Ifland in thefe Scas, and in the Courfe mention'd above, is Cyprus. The E. Point of Candia and the W. Point of Cyprus lie with one another E. half foutherly and W. half northerly, dill. 91 Ls. If you are bound from Candia to $C y$ prus, take care not to go out of that Courfe, Ieft you mils the batter, tor as the foutherly and wefterly Winds blow Trade for molt part of the Year in that Paffage, you may be blown from the Ifland, and be long fetching it up again.

The weftermolt Point of Cyprus is call'd Ciape PPifani, lying N.W. fiom Baffia about ${ }_{4}$ Ls : From that to the northermolt Point, Ci,firmacti, is 16 Ls.
N. B. N.W. from the fad nortlesmoft Cape lics a great Rock under Waten which whocver makes in, to ride un-

## for the Coaft of Afia in the Levant.

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It you pleafe, ihorc. rd the Main with a Caftle and the Seab: And bey good Road, Sape Traquilc Couric is E .
rfe mention'd the W. Point and W. half Candia to $C y$ you mifs the ow Trade for ay be blown

Pifani, lying northermot
: lics a great n, to ride min-
and E.N.E. The Salinas is a decp Bay that goos in N. ands. the Entrance extremely wide, and the Coaft lies N.E. from it; the S.W. Point, or S. from the City, is call'd Tagiffa, or Tagiffa, having an old Light-houfe upon it, bur not in ufe. The City of Salinas lies about ${ }_{3}$ Ls from it to the $\mathbf{N}$. the Point ftretching fouthward, thwarting part of the Bay.

There is in this part a Mountain, very much higher than all the Hills in the Ifland: It is call'd Monte Cruis; 'tis, feen here dircetly over this Bay, tho fituate far within the Land: it is fo vaftly high,that you fee it all along the Coaft, even on both fides the Inland: And it is a Sca-Mark on many Occafions. Bring this Mountain W. of you when you are in the Bay of Salis before the Town, and then you are in the beft of the Road.
S. of the Bay of Salinas 12 or 13 Ls off at Sea, lies a very dangerous Shoal, call'd the Black Grouthd, having not above 6 Foor Water upon it ; 'tis to be known only by the Currens, and Breach of the Sea near aud upon it : Other than this, there is ueither Rock or Shoal, or any other dauger upon all the S. Coaft of Cyprus, except a few Rocks clofe under Shore, a litrle above the low Point of Sagitta, and which are quice out of the way ; all the relt is a clean firr Strand, good riding, and good anchor-hold.
From this Bay to Cap" Grega, or Girva, is 7 I.s, the Courfe E. loutherly : Cape Pila is between indeed, but I call that the E. Point of the Salinas Bay. Cape Gregar runs out a very long way into the Sea S.E. and northerly from it, about $3 \frac{1}{2}$ Ls, lies the City and Port of Famazu/fa, the capital Place of Trade and Shipping for the whole Ifland; the Haven is large, and capable of receiving good Ships, and the Road before it very good.
N.E. from the Port of Famagufa, the Shore falling off, trends away to Cape St. Andrewi, without any Haven or Bay between, the dift. 12 LS: This is the caftermof Point of Land of the whole Ifland. There are two or three fimall Iflands lie off of the Cape, but no Rocks or Shoals; fo that all is clean, and you may ride under the Cape it feif, and on cither fide of it, with great lafety, as the W ather ihall dircect.

Oppofite to the N. Coant of Cyprus lies the Coalt of Cilicia, the Port of Stalia, and the anticnt City of Antiochia: Bur tho thisCoaft is full of Rivers and Bays, and fome confiderable Ports, yct as the Eurofcans have little or no Conmmerce with the Country, fo they have no Survey ft the Coaft ; nor have we any knowledge of the Soundings, or of the proper places for the Ships to ride in, till we come to the Coaft of $S$ yria, and the Gintph of Scanderoon: And thercfure we can cuser into no Defription of it.
From Cape Grega in Cyprus to the S. Point of the B.iy of Scanderoon (calld formerly Alexandretta) the Courle is N.S. dift. 37 Ls, and from Cape St. Andrew 21 Ls.
This S. Point of the Bay is call'd Cape de 'Porcos, a hish ftecp Point; it makes at Sea in three ftecp Hills. There is another Cape a little to the fouthward, which makes at a diftance like the Snout of a Hog; and from thence the whole Point was call'd Cabo de Porcas. The well marking this l'oint may prevent your falling into a Miftake which many have committed, of ruaning into the Bay of Ant iscbia multead of

Oppofite to the Ille of R/sode's, and clofe aboard the Main of Natolia, lies Cafllc Rolla, in a fmall Illand with a Caftle upon it, at the Bottom of a Bay; between which and the Scafide are fome Houles, where you may water alfo: And behind the Illand, between it and the Main, is a very good Road, equal to a Haven, fecur'd from all Winds, from Cape Traquille on the E. end of Rbodes to this Caftle : The Courle is E. by N. diftance 29 Ls.

The next lfland in thefe Scas, and in the Courfe mention'd above, is Cyprus. The E. Point of Candia and the W. Point of Cyprus lic with one another E. half foutherly and W. halt northerly, dift. 9 I Ls. If you are bound from Candia to Cyprots, take care not to go out of that Courfe, Ieft you mifs the latter, for as the foutherly and wefterly Winds blow Trade for molt part of the Year in that Paffage, you may be blown from the Ifland, and be long fetching it up again.

The weflermoft Point of Cyprus is call'd C'ape Pifani, lying N.W. from Baffia about 4 Ls : From that to the northermolt Point, Cape Cormacci, is 16 Ls.
N. B. N.W. from the faid northermoft Cape lies a great Rock under Water, which whocver makes in, to ride under the Point, muft beware of.
The fouthermoft Cape of rhe Ifland is Cape de Gat, dift. from Cafe Baffia in Ls, the Courfe S.E. by E. Midway beween them lics Cape Blanco, an eminent high Cape, and well known; it is a round Cape, and makes at firlt in three white Cliffs like Chalk. Cape de Gat is low and flat, and feen but a little way.

Off of the Haven of Baffic about i L from the Cape eaftward, and aloout a L from the Main of the Illand, lics a Riff or Ledge of Rocks : You may go in cither to the E. or W. of them, but the E. Paffage is the faireft. Youmay ride before Batfia in 6 to 8 Fa . keeping by the Main, to avoid the faid Rocks : 'Tis a good Harbour in moft Winds.

The Winds here, likz the Sca and Land Breczes in other Countrys, blow off Shore freth in the Mornings, grow calm with a S. Sun, and blow freth off Sea towards Evening, and then calm again before the Norning. Thefe alternate Courfes $\because$ the Wind feldom fall ; ind as the Sailors know how to ferve themelves of thent. they are very much to the Advansage of Trade and of Navigation.
coipe de $G^{i}$ is a low Point, and runs fo far out into the Sca, that it makes at a diftance like an liland, and as if it flood half . I. offin the Sea. About s I.s E. from the Cape is a fair Bay, where youhave good anchoring in 7 to 10 Fa. good Ground; vour Courte is it is N. by L.. and then N.E. by E. As you curer the Bay, you fec the City of Limefol: directly betore you: At the Bottom of the Bay there is a Caflle of white Grone thands up above the other Buildings, by which you will know the Town; there is very good Ground to anchor in jult betore the City in 6 to 12 [4. fecure from all Winds, except a S. and S.W. When you are in that Road, Cafe de Gat bears due S. of S. by W. according as you lic.

Irom this B.ay to the Salimes is it Ls, the Courte E. by N.

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[^8]Illands lie off of the Cape, but no Rocks or Sioals; fo that all is clean, and you may ride under the Cape it felf, and on cither fide of it, with great fafety, as the Weather fhall direct.

Oppofite to the N. Coant of Cyprus lies the Coaft of Cilicia, the Port of Stalia, and the antient City of Antiocbia: But tho this Coaft is full of Rivers and Bays, and fome confiderable Ports, yet as the Europeans have little or no Commerce with the Country, fo they have no Survey of the Coaft; nor have we any knowledge of the Soundings, or of the proper places for the Ships to ride in, till we come to the Coaft of Syria, and the Gulph of Scanderoon: And therefore we can cuter into no Defcription of it.

From Cape Grega in Cyprus to the S. Point of the Bay of Scanderoon (calld tormerly Alexandretta) the Courle is N.E. dift. 37 Ls, and from Cape St. Andrew 21 Ls.

This S. Point of the Bay is call'd Cape de Porcos, a high fteep Point; it makes at Sea in three ftecp Hills. There is another Cape a little to the fouthward, which makes at a diftance like the Snout of a Hog ; and from thence the whole Point was calld Cabo de Porcas. The well marking this Point may prevent your falling into a Miftake which many have committed, of running into the Bay of Antiochia inftead of Scanderoon.

To the N . of this Cape goes in the Bay of Scandcroon : To know this Bay, and prevent the Miftake above, you muft take feecial notice of the N . fide of the Bay, which differs remarkably from that of Antiochia, the Hills on the Shore differing extremely : Scanderoon it felf is known by two white Caftles, one antient and in Ruins, the other new built ; the Road is fair and good, and without difficulty ; yct 'cis fafeft for thofe who are unacquainted to take a Pilot, as well for failing iuto the Byy, as for chufing the belt of the Road.
N. B. This is a different Place from the antient City of Antiochia mention'd above, which ftands on the N. Coaft of the Country of Cilicia, now call'd Caramania.
Coming from Cyprus, and being bound to Tripol:, the Courfe from Cape St. Grega is S.S.E. foutherly, dift. 32 Ls. In this Courle alfo great Notice muft be taken, and Allowance made for the Current, which all along the E. Coaft of the Levant runs very ftrong, and with an unufual force to the northward; and therefore in failug from Cape Grega you muft keep pretty much to the fouthward ; tho the Port of Tripali rcally is by fituation three Poinrs more to the northward, viz. E.S.E. for if you do not borrow of the S. you will run the hazard of lofing your Palfage, as che Scamen call it, and being forced up to the northward, which it will be very difficult to recover. This Port of Trippli lies with Scandervon N. by E. and S by W. diftance 40 Ls.

If you thould make the Land before you make the Port, you muft look out for a very high Mountain to the caftward of the Coalt, which is the famous Mosint Libanus, or Lethaion, noted tor its Cedars and Fir-Tress, the largett in this part of the World: Bring this Moumram due E. from you, an you may be bold to run in for the Road of Tritoli. You will fee
 aiay
may fometimes be feen from C'yprus it felf, that is, from the Hills ab out Cape St. Andirea:

When you come near the Shore, you will fee at the Foot of Libanius, a little to the N . another ieffer Mountain round on the Top, calld Monte Cruis; and as much to the S. of the Hall, but W. of Libamus, another Hill, with a Tico Top: berween the Epico and the Round Hill, lics the Iort of Trifoli. As you come ftll nearer, you will tee a fmall Ledge of large Rockslying N . and S . in the Sca; keep to the N . of them, and you will fee the Road of Tripoli lying in E. within thote Rocks: You have Water enough in this Road, but foul Ground; and you mult fee that your Cables be very well fery'd, or you may chance to lofe your Anchors.

The City ftands behind a Wood, to that you tee the Houfes over the Trees; but between the Wood and the Shore or Strand, are Rows of Pack-howfes, or Ware-houles, for the Mercliants, where the Ships unlade and relade with great coniscuicuce.
S. by. W. from Trifoli liss the Port of Burutth, upona Promonory running far out into the Sca: The Land is low, and makes at a diftance like an Illand, a $L$ from the Shore. Betwecnthe Extremity of the Point and the Town there is a Church, and on the W. part of the Point a light-houke. The Town lies on the N. fide of the Point, and the Road is onthe N. fide of the Town, near a Turkifh, Mofque. The 'Pico, or flecp Hill on the $N$. fide of Momat Libamon, is a good Mark at Sca, to know how to look for this Point, wheh is juft is I.s S. of it. This Porr is diftance from the Salinas in Cyprus 45 Ls, the Couric S.E. by E.
Much at the fame diftance, not halfa a more, but in a S.E. Courfe, lics che anticnt Port and City of Sidon: It is on the fime Coaft as Barntti, only it Ls S.W. 'Tis fituate upon a high Rock; and about a Giun thot from it to faward lie other great Rocks. which break off the Sca, and make the Haven of the Town. You muft run to the northward of thofe Rocks, and there you will fee the Road: There is a Channel to the S.ward by which finall Voffels may come up to the fame Road; but tis foul and dangerous for great Ships: The Road is good, a clean Sand, and well fhelter'd. Herc you ride within two Ships length of the above-named Rocks, in 5 to 7 Fa . with an Anchor a-ftern, and a Head-faft a-fhore, upon the Rock; and here you may boaft that you ride in the firt Sca Port that was ever known in the World, and which remains a good Road, and a Place of Trade to this Day. There is a little Crock by the Caftle, where fmall Veffels may go in, and which it may be fuppos'd was the firft Harbour, for the Boats they firft made were not too large for that Porr: Bur now the Ships unload in the Road, and the fimall Veffels which take our their Goods, run alterwards up to the Town by the Creck.

From Tripoli to this Port is a fair clean Strand all the way without Illands or Rocks, Shoals or Riffs of any kind, dift. $2+$ Is. thev lic SS W. and N N.E.

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all the way kind, dilt. 24

Between this Port and Sidon, are two other l'oints, on the fouthermoft of which is a Light-houte, and allo a great many Trecs; and from that Point you may fee the City of Sidon lying duc N .
S.W. from this Port of Savo (Tyre) lics a high rocky Point, called Cape Branco, dift. il.s; there is an old decayed Church upon the very Pitch of the Cape, built of white Stonc, and is feen far out at Sca; 'tis a very good Mark for you, to thun a Shoal or Rifl which runs out to feaward near a $L$ from the Cape, and is very dangerous; 'tis allo a good Mark to know the Cape it lelf by. To the $N$. of the Point allo, and near the Strand, ftands a ligh fquare Tower, by which you will know the Coaft.
S.W. from this Cape 5 Ls, lie Cape Carmel, called now St. Margaret de Amene, and by our rude Scamen plain Si. 'Pe'se, but by the Italan Pilots Cape de Mella. Fromthis Point the Pilots lay a Bank runs out at Sca, but that there is 2 to $;$ Fa. Water over it; behind it there is an excellent Road, between the Bank and the Shore : you will know this Shoal, and the Road allio, by a flat lower which ftands on the top of a Point.

Betweenthis Port and the Cape called Cafe Blanco is a large Bay, at the bottom of which lic the Remains of that once tamous City and Sca Port of Acon, called Ptolemais, or St. Yob: de Acre, well known in our Hiftorics of the Holy IV 'ar, for recciving great Flects of Ships from England, as well as France, and other Places; 'tis now a walte and unimliabited Town, and a ulelets Port.

However, you may ftill anchor there to the caftward of the point of the old City, is 7 Fa . but the Ground is not good, to you muft take care to !erve your Cables well : Herc you have very duly the Sca-Brcezes, as at Smy)na and other places.

There is a good Road for Ships bound to the louthward at Catfin, a fmali Town upon the Coaft, between this Bay and St. Pegs, as allo at the Caftle of Yelgrini, which lies 4 Ls dift. from Cape Carmel, having 3 Spires upon the Towers or Walls of the old building. Under this Caftle is a good Road. with 6 to 7 Fa . but rocky bafe Ground, as it is upon moft of this Coaft rrom Tripoli hither.

Two Ls S. of this Caftle lies the antient City and Sca Port of Cafarea: it may be called a Sca Port, becaule we read to of it ; but at prelent there is neither Haven or Road, fo that the very Port is loft, as well as the City, which is not utual ; 'tis certain there was formerly a Mole, which was fufficient for the Shipping of thote Times, but it has been demolith'd, and is now loll.

From hence the Coaft goes on ftill S. and the next Port, and the laft indeed on the Coalt of A/ia in the Levant Sias, is "affic, fuppoted to be the Foppa of the antient Hiftory; it lies 7 Ls from Cafarea: it was formarly the Sca Port for "ferufilem, and it may be fuppoied was then much frequented by Ships, as well as ftor'd with Merchants.

Before the City or Port lics a Ledge of Rocks, beginmug on the S. parr, and running away $N$. guite thwart the llace;

Sward. benthenfinll Veffels may come up to the lame Road; but tis foul and dangerous for great Ships: The Roadis good, a clean Sand, and well thelter'd. Here you ride within two Ships length of the above-named Rocks, in 5 to 7 Fa. with an Anchor a-ftern, and a Head-fatt a-lhore, upon the Rock; and here you may boalt that you ride in the firlt Sca Port that was ever known in the World, and which remains a good Road, and a Flace of Trade to this Day. There is a little Creck by the Caftle, where fimall Veffels may go in, and which it may we luppos'd was the firf Harbour, for the Boats they firlt made were not too large for that Port: But now the Ships unload in the Road, and the finall Veffels which take out their Goods, run alterwards up to the Town by the Creck.

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S. of Sidon about, Ls flands (rather we may fay flood) the anticnt and famous City and Sca Port of Tyre, once the greatclt City of Trade and Navigation in the World; but which is now fo fink, as that it has not fo much as retain'd its Name, being call'd now by the Turks Saxo: the anticut Haven however, remains very good ftill, able to reccive a great Flect; the Ruins of the City are ftill to be feen clole by the Sca, and firveforsea Marks to go iuto the Port by. The Haven is on the N. fide of the City, and to the weftward lic fome Rocks, which thelter the Haven from the Winds off Sca, and break the Force of the Water in calc of Storms; fo that 'tis a very lecure Road, as well as Harbour. You fail round thele Rocks to the northward, and then you open the Harbour ; then bear up round, and ftand in S. Ieaving the Rocks on your Starboardfide, and lail into the very heart of the City ; or of that rather which was the City, for 'tis now wafte and in Heaps: Herc you are perfectly fhelter'd from all Winds, only that a northerIf Wind brins in a rolling Sea; but even then the Ships ride fecure cnough. Within the Harbour on the S. Point remain miny Towers, and Stecples ; which are Sca Marks to guide Ships at a farther diftance into and out of the Haven; but here is now very little Occafion for them.
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lame Road; oad is good, within two 7 Fa. with tine Rock; ca Port that lains a good re is a little go in, and or the Boats But now the which take wn by the
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ftood) the ec the greatout which is d its Name, Haven howgreat Flect; he Sca, and Haven is on ome Rocks, and break 'tis a vary thefic Rocks ; then bear ir Starboard. f that rather lcaps: Herc at a northerc Ships ride oint remain rks to guide Haven ; but

Wuh 6 to 7 lia but rocky bate Ground, as it is upon molt of this Coalt trom Tripoli hither.

Two Ls S. of this Caftle lics the antient City and Sca Port of Cafaria: it may be called a Sea Port, becaule we read to of it ; but at prefent there is neither Haven or Road, fo that the very Port is loft, as well as the City, which is not ufual ; 'tis certain there was formerly a Mole, which was fufficient for the Shipping of thote Times, but it has been demolilh'd, and is now loit.

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Before the City or Port lies a Ledge of Rocks, beginning on the S. part, and running away N. quite thwart the Place; you ride before this Ledge of Rocks in the open Sca, for here is no Haven, nor can any Ship of Burden come up to the City, only imall Boats, the other being kept off by the Ledge of Rocks: There is 10 to 12 Fa. in the Road. Bring 2 Towers, which ftand at a dift. from the Town, to bear S.E. trom you, and you are then in the beft of the Road, and pretty good Ground, better than is ulual upon this Coaft.

The Coaft here is very dangerous, the Ground generally in the Bays and Roads foul; fo that if you come to ride, unlets you are well acquainted, you run great hazard of lofing your Anchor; and if you are driven from your Anchor, there's no Shelter upon the whole Coaft, but to drive with the Current, which is extremely furious to the northward.

If you go to rade latther off, 'tis worle ; for within Muskethot from the Shore you have 35 to 40 Fa. the Ground to foft, that your Anchors will hold no Purchale.

15 Ls S. of "Faffia lies the Town of Efcalona, the laft Town of A/ia, but no Port; neither is there any Shipping utes it, for there is no Road, or Haven, nor any Occafion for it: all the reft of the Coaft is defart and wild, without Sca-Port or Rivers, or Cities, from Faffia quite to the City of 'Damiata, on the Bank of the eattermolt Arm of the Nile, which is 53 Ls; where beins the Coaft of Africa, which is taken notice of in our Accounts of that Country.


## Sailing Directions for the Coaft of Am thern Parts where they are frequent Hudfon's Streights, and the Coas furveyed; and thence foutbward to I



HE giving Inftructions for failing on the Coaft of Spitsbergen, vulgarly called Grecnland, and allo on the Coalt of the northern Part of Frobil/er's Streights, and the Country called Grecnlazad, and which is the only true Grecnland, is now render'd wholly needlefs, as the Places themfelves are ufelcts in Navigation; and is therefore omitted here, as alfo for the following Reatons.
i. That the Whale Fihing is entircly remov'd from the Shores of Spitsbergen; and no European Ships come any more near the Coafts of thofe Illands except for Game and Diverfion; but they fifh now entirely in the open Scas, and a mong the Ice, far W. and N.W. from the Illands.
2. All the Settlements formerly attempted to the N . of the Strituths call'd Hudfin's Bay, are abandon'd; and all the Expectations of penctrating by thofe Streights to find a Pa:
 given over: fo that to fipeak of thofe Parts any more in Navigration, would be to direct Pcople to fail where they can have no Oceafion, and where it is likely none will ever attempt to tail again

Nor indecd is there any exact Survey of the Coaft, within thofe Streights which we pals to go to the prefent Colony of Hudjon's Bay and Rupert's River; thole Sctelements being far within the frozen Streights, and where only the Company's Ships, which are but about 2 or 3 in a ycar, ever go: and their Mariners may be laid to be the only Pilots for the Voyage, the beft Accounts given by our printed Pilots being imperfect, and not to be depended upon.
Our Survey thercfore will naturally begin with the Coafts of the Continent of America, from the Entrance into the great Gulphof St. Laiurence, and River of Canada; and from the Brat/if) Colonics, making the South Coaft of the great River and Gulph of Culuda, which Country is properly called Nova Scotia.

From the Entrance into Hudfon's Bay there is a long open Cont lvine N. NW Wad SS.E to the Entrance of the N. Chan-

Off of grand Bat as follow 1. The S. Part S.W. thon E. from $C$ It is abou ing in La from 28 of it nor
2. Th bles, call of Accad bcing in 43 Ls.
3. Nc. cadad, li out in a taid Cap. Ls; and the othe Channel from 20 on the
4. Bef rallel w height Mercma cept at tl In lengtl 47 Fa .
N. B. this Sailo alfo, beyo

aft of America, from the utmoft Norre frequented by Shipping, exclufive of $t$ the Coast of Greenland, as not fully thrard to Delaware Bay inclufive.
the Coaft reculand, hern Part Country only true lly needulclels in or the fol-
from the come any ce and Dits, and a.
N. of the d all the nd a Pa!: atali, are : in Navin have no upt to lail

It, within Colony of nts being 'ompany's and their oyage, the rfect, and

Coafts of the great from the cat River lled Nova

Off of the Coaft lic divers large Banks, tho not equal to the grand Bank of Newinndiand: A bricf Accoment of which take as follows.

1. The lfland Bank is the moft northerly, and lies on the S. Part of Newfonndimd S.S.W. from Phacoutia Bay, and S.W. trom Cape Mary on the Ifland of Nexifotudhad; N. by E. from Cape Breton, and on the E. fide of the Ifle of Gafpe'. It is about 40 miles in breadth, and not quite 70 in length, being in Lat. from $4^{6} \mathrm{~d} .10 \mathrm{~m}$. to 46 d .50 m . having gencrally from 28 to $; 0$ Fa. with 3 fimall rocky Illands on the outer Edge of it northward.
2. There is a great Bank which lics S. from the Ifle of Sables, call'd the Shoals of Siables; it lies S.E. from the N. Coalt of Accadia, and from Canfeaus Bay: This is a very large Bank, being in fome places 70 to 80 miles long, dift, from the Coaft 43 Ls.
3. Near the fame Coaft, and parallel with the Shore of $A c$ cadua, lics a long Bank call'd the Shoals of Accadia, ftretching out in a Line from the height of Cape Sable S. by E. from the faid Cape to Lat. 44 d. 20 m . dift. from the Shore from to to 20 Ls; and then runaing away N.E. by E. and due E. till it joins the other Bank call'd the Shoals of Sable, excepting a dimall Channel of Iefs than i L. over. On this Bank of Accadia is from 20 to ${ }_{45} \mathrm{Fa}$. and on the other of Sables from $\mathrm{I}_{5}$ to $\mathrm{SO}_{3} \mathrm{Fa}$. on the N. fide, and from 30 to 47 Fa . on the S. and S.E. fide.
4. Befides thefe, they have a long narrow Bank, lying parallel with the Coaft of Ncw England, ftretching from the height of Cafo Bay N to Cape St. Anne and oppofite to Mercmack River S. This Bank is generally 5 Ls broad, except at the extreme Points, where it goes olf iharp to nothing: In length N.E. and S.W. it is $3_{2}$ Ls, and has upon it from to in 47 Fa .
N. B. It is obferv'd, that fone of our Map makers defcribo this Bauk in a different manner, and indecd not at all like Sailors; they call it "Faffrey's Ledee; leflen its Dimenfions allo, and make it not above to miles long, not reaching N ong open N. Chanbeyond the River Saco: But as we follow the old N( $\sim$ Eusland Pilots, who no yueftion firvered the Coalt, we

Bation, would be to direct People to dial wherethey can have no Occafion, and where it is likely none will ever attempt to lail again.

Nor inded is there any exact Survey ors the Coaft, within thole Streyghts which we pals to go to the prefent Colony of I/Vd/in's Bay and Rupert's River'; thote Settlements being far within the frozen Streights, and where only the Company's Ships, whichare but about 2 or 3 in a year, ever go: and their Marriners may be laid to be the only Pilots for the Voyage, the bett Accounts given by our printed Pilots being imperfect, and not to be depended upon.

Our Survey therefore will naturally begin with the Coafts of the Continent of America, from the Entrance into the great GuphotiSt. Lawrence, and River of Cabada; and from the Bratalb, Colonics, making the South Conft of the great River and Gulph of C'aluada, which Country is properly called Nova Scotia.

From the Entrance into IIudfon's Ray there is a long open Coalt lying N.N.W. and S.S.E. to the Entrance of the N. Channel of the Gulph of St. Lawrence at Bell Ifle, being the Paflige at the $N$. end of the Illand of Newifontidand, and beeween Newfonndland and the Terre de Labradore, and the long open Coalt jult mentioned.

This Coaft has not been yet firrecyed, as being of no ufe for Commerce, except that by chance any Ship may be driven in by flects of Weather for frefh Water, and the like; on which Occafions they have reported, that there are very good Bays, tafe Roads, and good Harbours, almott any where: But we iave no farther examin'd or enyuird into them.
'Ihe River of' C'antada goes m by Cape' Breton ou the Ifland nt Ci, /fe, being to the NE of New Scotland ; and accordmg to the lateft Survey, is in Lat. $4+\mathrm{d}$. N. or 4 d . 10 m . The Conntry of Accadia, which is the fitt Land of the Einglifl) upon the Continent fouthward of this Mand, was lately concaded to the fingli/h by the Treaty of "urecht; and upon that Accome we are jet without an accurate Survey of its Coaft : The chicfthing that can be faid is, that the Gulph of Funda, Which is its fouthward Bound, is very good, the Shore clean, and the Depth of Water fufficient for Ships of any Draught yente up to the 'Town of' Amapoies, which is now the Capital at the Cominty.

This Town lies in a fmaller Bay within the great Bay of finda, and is it felf an excellent Harbour: you may run into the great Bay, with this general Oblervation only, wiz. That is is a fair clean !3ay, without any Dangers but what are feen; and if you would go up to the Town you may ca!! for a Pilot.

From hence you have almoft immancrable good Harbours, Ports, Mlands, Crecks and Coves, all along this Coaft, tho thereare withal many Rocks and Inands, which makes Pilots fo necenary to particular Ports. This is what is properly calIed the N. Part of the Colony of New Eugland: for as the 3 anticnt Governments make now but one, their Coafts are allo joyncdin one Delcription,
mary
oaft, within t Colony of nents being Cumpany's 0 : and their Voyage, the perfect, and
he Coafts of to the great nd from the great River called Nova
a long open the N . Chaning the Pal: and between the long o-
of no ufe for be driven in ; on which good Bays, re: But wc
min the Ifland and accord$+\mathrm{d} .10 \mathrm{~m}$. the $E$ :inglifl lately conde upon that fits Coalt : 1. of Funda, hore clean, ny Draught the Capital
rcat Bay of ay run into viz. That It are feen; for a Pilor. Harbours, Coaft, tho akes Pilots operly calor as the 3 As are allo
anir a mine nom tie meggit of Cape' Sable S. by E. from the taid Cape to Lat if d. 20 m . dift. from the Shore from to to 20 Ls; and then running away N.E. by E. and due E.till it joins the other Bank calld the Shonts of Sable, excepting a dinall Channel of Iefs than i L. over. On this Bank of Alccadia is from 20 to 45 Fa. and on the other of Sables from 15 to 30 Fa . on the N. fide, and from $3^{\circ}$ to 47 Fa . on the S. and S.E. fide.
4. Befides thefe, they have a long narrow Bank, lying parallel with the Coaft of New Eingland, Atretching from the height of Cafio Bay N. to Cape St. Amue and oppofite to Meremack River S. This B3nk is generally 5 Ls broad, except at the extreme Points, where it goes off iharp to nothing: In length N.E. and S.W. it is $\boldsymbol{j}^{2} \mathrm{Ls}$, and has upon it from 40 to 47 Fa .
N. B. It is obferv'd, that fome of our Map makers deferibe this Bank in a different manncr. and indecd not at all like Sailors; they call it "faffreg's Ledge; leffen its Dimenfions, alfo, and make it not above 40 miles long, not reaching N . beyond the River Saco: But as we follow the old N'e England Pilots, who no queftion furveryed the Coalt, we have reafon to believe they give the bett Account of it.
5. The Charts of this Coaft alfo give us another Shoal, which ftretches N. by E. and S. by W. almoft the whole length of the Colony, from oppofite to the Monument Bay in Lat. $4^{1 .}$ to the Point of Accadia call'd Cape Sable in Lat. 44. being 60 Ls; beiug 10 Ls over towards the S. cud, but narrowing gradually all the way to ; Ls at the N. Point; and having generally from 35 to 37 and ${ }^{\circ} \mathrm{F}$ Fa. upon it, except at the utmof Edge of it S. where it widens to 23 and 24 Ls , and thoals up to 10 Fa .3 Fa . and at the outer Edge to ${ }_{1}$ Fa. This they call St, George's Bank; it lics dift. from the Mouth of Boffon Harbour E. and W. 45 Ls, from the E. fide of Cap: Cod E S.E. ${ }_{2} 4$ L.s, and paffes by the W. end of the Shoals of Accadia. dift. $s$ l.s W. by S. Within the 4 th Bank are the Havens of Salem, Pif. cataway, or Pifcatug!y, the River of Merimac, Saco, and teveral others, with Cafio Bay, all, efpecially the former, ful! of good Havens. Cafio Bay is full of finall llands and Rocks, as likewife are the Rivers of Pifatainay and Saco: But as thes would be endets to delcribe, and that at every Port there are Pilots to carry Ships in, no Stranger can be at a lofs here: It is enough to direct any Sailor on this Coalt, to keep a good Offing.

From Pifintaziay to Cape St. Abne is $10 \frac{1}{2}$ Ls, the Coute S. by E.
S. from St. Anne's Point at the dift. of about $10 \pm \mathrm{Ls}$, lies the Entrance into Bofton Harbour, Marble-Head betng betwecn at the S. Point of a very fine Bay, which is all tull of Fithing Towns.

Bojton Harbour is a place feneed with to many Shoals, Fhats, Rocks, and Mllands, befides Cattles and Forts, that the beft Sailor in the World, if unacquainted, conld not find his way in or out withour the help of a Pilot. There are; Chamels into it, thro' the moft difficult Wiadings imagimable: There is no need to give Direction, fecing no Ship tentures, as above,
without Help：It is the like at all the Ports of this Colony，as well to the $\mathbf{S}$ as to the $\mathbf{N}$ ．This Entrance into Roflon Harbour is called the Broad Sound．

N．B．One thing muft be obferv＇d here once for all，$i \neq$ ． That whoever hails to this part of the Contincont，ought not te come upen the Coaft cither towards the beginning or codor Winter：for if they come not upon it before the N．W． Winds all in，or flay till after they areover，＇tis oddshut they are blown off the Coaft；and it lo，they camnor fomerimes get in till many Months；and it is no ftrange thing to have Shipskept offio long，twat they have been obligd to rum away to the S．cicn to the llands，fome to Bermatare， fome to the Butsoner，and fome to the Weft Indies ：or clie they hascekep beatm；off at Sca，till they hase been ！ar゙ふ。
The N．W．Wiads binw ecearally very flrong，and excef－ five colt：for as they come off Shote from the great northern Continent，they bme their Winter wath them，and ofren eon．
 sober to the cnd of \％imum，and fomcames longer．

From Cate（ind the Landfalls ofl W．trending away from Fli－ zwoth If and and Martu＇s linesard W．by S to the Mouth of iludfor＇s Recor，calld Niw Tork River，palling on the infode of Lon：Ifamt．In the Bay between，there are many Ihands，Ri－ vers and lnless into the Country，where there aie good Har－ bours，as at the River Conntitath，at NoüLondon，Rbode
 there are Plots，fo that we nocd not cularge our Deleription．

Oft of the Mands on the E．Sinore of P！month Colony，there are at inctedble Number of Sand Banks and Shoals：There aresond Chamels between moit ot them，and good Marks to sude thro＇thote Channels；if once aciquanted withthem；but if not，you mult make proper Sisnals，and the Pilots will come to your Abiftance．

But as it is a very dificult Courfe from Cape Cod to the E． and of thole Illands and Sands，or to the E．Point of Lomg ！！end，calld oyber Point；to you run a great Rifque if you come by the Coaft，and wathin the Iflands；for the Sands are fo many，and the Chamels to frate，that tho there is Depth of Water cnough，yct a Stranger could never do without a Pi－ lot：Thote that are unacquainted therefore，would to better to en wathout all the Sands，clpectally thofe call＇d the Rofe asi Crouis Now and Old，and Nintucket Sboal，which lic the frome N．and N IE．from Natuket I／Rand，and the latter S．E． irom it；Arctching out to Ceaward 15 Ls in length，and above （o）mbradeh．

N：B．Between St．Ciorge＇s Bank and thefe Sands，kecping the Fuir Way from Rofor Habour to go without all the Sands，youlave 100 Fa and fometimes no Ground at 200. Come no noater to the new Rofe and Crosin than 70 Fa ． for＇ses monftroufly flecp and uneven．N．$R$ ．There is a Chamel gocs in between the Old and the New Rofe and fonall when you come into in You are enter＇dinto

## Tions for the Nortkern Coafts of America.

his Colony, as olion Harbour
: for all, c : z . trinent, ought a becinning or efore the N.W. soddsbut they not fometimes thing to have oblig'd to run to bermaider, c/t Indics: or hey have been
ag, and cxcefgreat northern and often con;ming of Oc. necr.
way from Flio the Mouth of ig on the infide any lihands, Riasc good HarLoidono, Rbode c. at all which ar Deleription. Th Colouy, there Shoals: There good Marks to withthem; but ilots will come

Cod to the E. Point of Lenis t Rilque if you r the Sands are phere is Depth o without a Pivould to betecr call'd the Rofe 6, which lic the d the latter S.E. igth, and above

Sands, kecping without all the Ground at $: 00$. rint than 70 Fa . 1R. There is a New Rofic and are cuter'Linto

Point N.W. from you, and then youmay go away N.N.W. be. tween the Spit of Sandy Point, in 7 Fa.

From this Point fouthward you have is Fa. to feaward; and fo gradually the Water deepens to feaward, till at the dift. of 20 I.s you come to 80 Fa. and then to no Soundings.

When you are paft the Simdy Hook or Point, the Channel up is narrow, but the Soundines are good; and after you pals the S. cnd of Long Iliand, the Water deepens to $1+$ and is Fa. But your lateft way is to take a Pilot. The Road where the Ships lie when they come up, is on the N. fide of Nut Iflud, between the Illand and C'aftte 'Point: the Ifland wheh the Caftle and Town of New Tork itand on, is call'd by the fime Name; and below there is another call'd Staten Ifland.

The Eaft Part of the Pafiage within Long Iflath, and between the Mland and the Main, is call'd the Horfi Race, leating to the Haven of Ncw London; from Ncw London, it is a fair clear Sound, and the Courle is W. loutherly : the beft of the Sound is on the fide of the Ifland, where the Chamel is decp, and the Current fersftrong to the Weit.

In the way there is a Point call'd Strat ford, ruming out S. from the Main. S. off from the Point is a narrow Ridge of Sand, flretching Channel Courle, and lying two thirds over the Sound; chis muft be avoided, but it may cafily be to, by not going in the Mid fltrem; for on cither fide you have a good Channel, and Water cnough. There is alio a Rifl ot Rocks lying N. from a Poine on the lland call'd Hemfeed 'Pout ; but they are all above Water, and to be feen ; and the Fair H'ay lies betwean them and the Point in 7 Fa. From thence youlec fome llands calld Minford I les; go on S.W. thll youcome juit betore them, there cone to an Auchor, and rake a Pilot to carry you thro' the Streight calld 'ichld-Gatc, to Niw York Roda.

N'13. The Horfe Race lics from the E. Point of Long Ilhend cowards $N$ iw Londen, which is the Entrance into the Sound, $: 2$ Ls. Fromithe Horfo Race to Strafurd l'ozat is 21 l.s. Irom Stratford Pomt to Heemfted l'cint is 15 I.s. N. R. At Menjord I/le's the Sound is brought to 2 miles broa 1 , and the Strait not above half a mule broad, when a rocky foul Coalt alfo. N. $B$. There are many excellent Harbours all the way on the N. fide of Loing liland, as allo fome on the viher fide. being the S. Shore of the Main, but chiefly on the Ithand; and any Ship of Burden may fail with Sefety as tar as the Strait of the Sound, but there it is difficult, fo that great Ships ulially go about.
At the W. cnd of thes lland goes in the Harbour of New York, being in the Opening of Mudfon's River: The River liurounds the City, but chicfly on the W. part, where the Harbour may be liad to be; the Road is good, and the Ships ride as near the Town as they pleale in 5 to :1, Fa. the River is large and deep, and navigable for fimall Veffels up to Alliany above 100 miles; yet notwithttanding the Goodnets of the Harbour, Strangers always take a Pilor.

Small Veffels go quite thro here in the Chunnel within the
1.ma, cang oyprer $e$ ont, 10 yourunz great Rique if you come by the Coalt, and within the llands; for the Sands ate to many, and the Channels to frait, that tho there is Depth of Water enough, yet a Stranger could never do without a Pi. lot: Thote that are unacquainted therefore, would do better to go without all the Sands, clpecially thole call'd the Role am (rown Now and Old, and Nantucket Sboal, which lie the former N. and N E. from Niantucket I/Rand, and the latter S.E. from it ; ftretching out to feaward 15 Ls in length, and above ó in brcadth.

N: B. Between St. George's Bank and thefe Sands, kecping the Fair Way from Bofor Marbour to go without all the Sands, youhave 100 Fa and lometimes no Ground at 200. Come no nearer to the new Rofe and Crown than 70 Fa . for 'tis monftroutly ftecp and uneven. N. R. There is a Chamel goes in between the Old and the $N e w$ Rofe and Crima: when you come into to Fa. you are enter'd into ir, and it toon thoals upon you to 20 Fa, then to 10 , and at laft to $\dot{x}$. and one way it falls to 2 Fa. fo that there is no paling in that Channel without great Difficulty. N'B. Going without all thele Sands, the Courfe is S.E. from 10 L.s N. of Cafic Cord to Lat. 4 Id. then due S. to the Lat. 40 or 39 d. 10 m . Then duc W. and W.N.W. till you come into Eboch Ifand Channe!; then N.W. by N. till youmake the E. Point of Louts I/hend.
Lou, Illand lies off of the Coaft, parallel with the Shore of the S. part of the Colony for upwards of 140 miles in Iength, dift. from the Shore utually from 5 to 10 and 12 Ls. The Ports of Neü London, Now Maver, Connecticut River, and fereral Iefs confiderable Harbours, are within it: On the Off fide rums a long Shoal of Sand and Beach parallel with the Shore, but in moit places about a $L$ from it, not any where joyning to it ; flectching on thus for above 30 Ls, to that there are no Harbours or Ports on that fide of the Mland, the Sand being dry and not paffuble by any Velfels, except at one Infer call'd the ralfase.

Thie Land at the S. Part of Lons Ifand ftrctelacs E. by N. and W. hy S. and from thence E.N.E. to the E. Point. Ships pats to Neiu lad by a Channcl off of the S. cod of this Inand: But tion the SE. Font there runs a Riff, or Shoal of Sand, Atetchast tharr the whole Chamel almolt to Sandy Point, on the fide of "fores; you muft go romed this Riff, except that ar the end of it for fone lengeth there is; Fa. upon it, but farther NW. thete is but ; Foot Water on it.

In the Channel between this Riff and the Coaft of forey, and Sindy $Y$ 'ont in particular, there is 7 to $S$ Fa and good ( round; and afterward all the way up this Chanall you lave $\therefore$ to $1+$ Fa. quite to the Town of $N(w$ York. This is the muin Patage for the Porr, and is about a mile and halt over.

Sindy Pont is high Gromd, and rowen at the rop: The Fitch of the Point is called 'rorthand. In palling thro' here, take care not to come too near Sandy Pount; for there lies toul Gound, and there allo is fhoal Water. Bring the Sandy

Yor furr Hart ride is $\operatorname{lan}$ abo Har $S_{t}$ Inan narro $\mathrm{Fr}_{\mathrm{r}}$ Cpoive Rive and Place Coal this ther he Sands are re is Deprh vithout a Pi . ald do better Il'd the Rofi which lic the he latter S.E. h, and above nds, kecping hout all the round at 200. $y$ than 70 Fa . 3. There is a low Rofe and e cutcr'd into :n to 10 , and that there is :ulty. N.B. S.E. from 10 o the L.at. $4^{\circ}$ ill you come till you make
the Shore of les in Icngth, s. The Porrs $\because$ and feveral Off fide ruas ic Shore, but oyning to it ; c arc no Harpod being dry nlet call'd the
ches E. by N. Point. Slips of this Inand: hoal of Sand, ndy Pomt, on f, except that on it, but far-
ant of \%ory. Fa. and good ancl you lave

This is the d halt over. the top: The ng thro here, for there lics ting the Sandy

15 Ts: N. R. At Minford Ale's the Sound is brought to $z$ miles broad, and the Scrait not above half a mile broad. witha rocky foul Coalt alto. $N$. $B$. There are many excellent Harbours all the way on the N. fide of Loug ! fland, as allo tome on the other fide. being the S. Shore of the Main, but chiefly on the Illand; and any Ship of Burden may fail with Safty as far as the Straic of the Sound, but there it is difficult, fo that great Ships ufially go about.
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Small Veffels go quite thro here in the Channel within the Inand; but the Channel at the W. cnd next to $\Lambda^{\prime}=0$ Kork is narrow, and tho call'd Heli-Gate','tis a flrait not a wide Paffage.

From New York the Shore pulles out S.S.E. to Midith toin's Point, dift. from Lous Ifland, about $1 ;$ Ls. There is a largo River opens between (making a fimall Bay in the Mouch of it) and good anchoring in the Road before it, and fo in feveral Places behind the firtle llands, which lie all the way on the Coaft. The navigable Outlet of Hiadfon's River comes all our this way to Sandy Point, and then opens into the Sca, together with the Outlet from the N. fide of Eaft Yevfiy : There is 8 to $: 2 \mathrm{Fa}$. in this Channel.

From Middleton's 'Point the Shore gocs away S S.W. to the Mouth of DiLu'are Bay, ending at the W. Point of Delaware River, and the fiid Shore is the E. Coatt of the Colony of New lerfey; this is a very large and navigable River, which cmptics it Ielf into the Sca, from the Colony of $\%$ 'uIItwania, walling the W. Shore allo of the Province of Niw Jorfy.

This River is fuppos'd to be of a very great length, fecing at the Town of Pbiladelplisa, where a lefs River falls into the Delaware, and at the diftance of above $j 0$ Ls from the Sea, Ships of 500 Iun lay their Broad-fides to the Key on both fides the Town ; and they tell us great Ships may go up much farther. There are feveral good Havens on the Firfy fide of this River, and a fufficient depth of Water in moft of them, but efpecially in what they call Prance Muturices River.

The Bay goes in N.W. but inclines to the N. as toon as you are in, runting up firft N.W. by N. for 20 or 30 Miles, then due $N$. as much more, and chen tums to the caftward of the N. to that for 30 Miles before it comes to Mhiladilphid it lies N.E. and S.W.

On both fides this River, which divides New \%ivey and Maryland, there are many Creeks and Rivers, where the re is good auchoring and good Harbour; at Ellfimburgl/ in particalar, on the ferfey fide, there is a good Harbour tor great Ships, Land luck'd from all danger. There arc tome Illands in

## Sailing Directions for the Coaft of Virg

the broad part of the Bay, and feveral Shoals; but they are fo well known, and to mark'd out, that there is little need of a Pilot.

On the S. Coaft of 7 er $/ \rho y$, E. of the Bay, lic four Iflands fretching N.E. and S.W. parallel with the Main; and between thele Iflands and the Main are icveral good Harbours and Roads, and the Chanucl within them is large and good.

Without thefe lllands there lic alfo at the Offing oppofite to them, ieveral Sands or Banks all the way, but chielly at the deveral Entrances between the Mlands, as far northward as the Iflands lie extended; the Channels between them anfivering to the feveral Channels between the Inlands.
S. of the laft of thele Banks of Sand lics a large Shoal, ftretching as it were thwart the Mouth of the Bay, but at the diftance of 6 Ls Offing; alfo when you go in, on the $S$. fude and on the N. are large Sands; but the main Channel is in the Middle with 15 to 18 Fa . fufficient for the largett Ships; fo that thole Bauks are no Obftruction to the Navigation of the Bay.

The beft going in is on the S. fide: Kicep about a Mile from the Point: After you are within the firt Cape, you will fec another Cape before you on the lime fide, call'd Ciape fames
or Henlop with it, it

In this far to the fide which which is tl fide of it, fide of the

In this holds that and 7 Fa . Milcs : A dower that
$N . b$.

## Sailing Directions for the Coaft of Virginia and Mas

 ware Bay exclufiee, to the Port Royal on the South five: With a Defiription of the Currents in the Gu

R OM Cape Henlopen on the W. fide of the Entrance into 'Deldwan' Bay, the Coalt being properly part of the Colony of Maryland, trends away S. by E. about to Miles to a finall round Point, at the Opening of a Creck which our Pilots call Af: fietcicg; and from thence fallung off to the weltward, gocs away $S$ by $W$. for near 30 L.s more to the Capes, calld to by way of Emucnec, but for Diftinction the Capes of Vinginia, being the Entrance into the great Bay of Cbefapeak, the main Harbour and Inles to all the Colony. As for the liailing Directoons for every River and Creck within this Bay, with the Bearings, the Shoals, Rocks, Havens, छ̛c. in every part, as it would take up almoft a Volume it cannot be expected.
It muit tuffice here, as in other places of like nature, (I do not hay of equal Dumenfons and Varicty, for that is not in the World) to lead you to the Entrance or ryming of the Bay, and then call for lilots to dircet you ", acre your Occafrons thall reyuirc.

The S. and S.E. Coaft of Maryland mention'd above, we do not find has any confiderable Harbours; it is a long narrow Peniutula of L Land between the Bay and the Sca; and the Harbours and Roads lic all to convenient, and are to numerous on the other fide withun the Bay, that as the Coart on the Ocean is very difficult and almoft mpracticable, fö that Want is fillly tuphy'don the miner Shore, where there is not a Plantation but lisis finme navigable Stream or Creek comes clofe up (0) it foom the l3.iy.
werc all a Ls off fic fouthwar

At you alfo off o lots will

The br is 5 Ls ; and the A not lets moft of $t$ Harbours Convenic neither is covcr'd,

Ships N . into til yer the g to it, 12 others fal way N . them, an and land the Mari Place ; 't cable ; a pilor.

## Coaft of Virginia and Maryland.

c fo well a Pilot. I Iflands between urs and . ofite to at the d as the divering
: Shoal, it at the c S. fide is in the hips ; fo n of the
tile from will fee e fames
or Henlopen ; make up to it, and when you are broadafide with it, ftecr N.N.E. about 2 Ls farther up.
In this Courfe take heed the Tide docs not horfe you up too far to the weltward at firft; for there are feveral Sands on that fide which are fcarce paffable; but keep the Mid-Channei, which is the Fair Way, and fo pals thro' keeping to the E. or W. fide of it, according as you are bound either to one or other fide of the River.

In this Mid-Channel you have at the Entrance ${ }_{12} \mathrm{~F}_{2}$ and it holds that depth for near 4 Ls up ; after which it lhoals to 6 and 7 Fa . which it hold, moft pare of the way up for 70 to 80 Miles : After which it rather deepens, as the Channel is narsower than beforc.
N. B. A S.E. Moon makes full Sca in Delaware Bay; and the Tides fet thus, the Flood E.N.E. and the Ebb SS.W.
At New York the Tides fer S.E. by E. and N.W. by W.
At Boflon S. by E. and N. by W.
At Rbode Ifland, and the N.W. Point of Black IRand, S.E. by E. and N.W. by W.

On all the Coalt of $N(x i z l y m o u t)$ Colony S. by E. and N. by W.
rginia and Maryland, from the Weft Point of Delayal on the South-W'ft Part of South Carolina inclurents in the Gulph of Florida.
the Eng properds away Point, at call $A /=$ rul, gocs l'd to by irs:lua, the main ling Diwith the part, as tcd.
are, (I do is not in a of the ur Occa-
vc, we do g narrow the Harnumerous t on the t Want is a Plantaclole up
were all at once: And when you are fire not to be above is Ls off from the Land, then the Current fets as fierecly to the fouthward, and the nearer the Land the Atronger the Current.

At your firlt coming to an anchor off of Cape Hewy, as alfo off of Smitio's Illatid on the fide of Cape Cbarles, the lilots will come off to you cither with or without a Signal.

The breadth of the Entrance of the Bay between the Capes is 5 Ls; the Bay within widens in tome places to a valt breadth; and the Mouth of 'Potownack: River falling into the Bay, is not lets than $7^{\frac{1}{2}}$ Ls over: The Channels are all virygood, moft of them clean and deep; and there are fuch imumerable Harbours within Habours, and Roads within Roads, for the Convenience of Shipping, that the like is not in the World; neither is thereany River, Gulph, or Bay in any part yet difcover'd, where there are equal Advantages for Navigation.

Ships go in here agreat way W. and then run $160^{\circ}$. Whles up N. into the great Bay; which tho it delf but a navigble River, yet the greatelt Ships rum up 200 Miles: Other Rivers fall into it, navigable 150 to 160 Miles wide from the Bay W. others fall into thofe Rivers navi:able 50 to 60 Niles cither way N. and S. and to of others again : And in all of them, and almoft in ctery Creek, deep Water, foft Ground, and land lock'd from all Winds. I need lay no more to tell the Mariner why he has not particular Directions for every Place; 'tis enough to thy it would be condels and impracticable; and that wherever he is to go, he may be liere of a Pilor.
bemg the Entrunce moto the great Bay of Chefaperok, tase main Harbour and Inlet to all the Colony. As for the dialing Directions for every River and Creck within this Bay, with the Bearings, the Shoals, Rocks, Havens, Efc. in every part, as it would take up almoft a Volume it cannot be expected.

It mult tulfice here, as in other places of like nature, (I do not fiy of equal Dimenfions and Variety, for that is not in the World) to lead you to the Entrance or Opening of the Bay, and then call for !'ilots to direct you where your Occafrons thall require.

The S. and S.E. Coant of Margland mention'd above, we do not find has any confiderable Harbours; it is a long narrow Penintula of I and between the Bay and the Sca ; and the Harbours and Roads lic all to convenient, and are to numerous on the other fide within the Bay, that as the Coaft on the Occan is very dafficult and almoft impracticable, fo that Want is filly fipply'don the inner Shore, where there is not a Plantation but has fome navigable Stream or Creck comes clofe up to it from the Bay.

The Shoals about Cape C'barles, which make the Point on the Mar:land fide, arelo many, that no Ships can cither come near the Coaft from the Sca, or near the Cape at their Entrance mon the Bay. The Riff of Sand at the Cape runs off to the Sund callid the Mitdale (ironnt, in the Entrance of the Bay; to that no Shups of burden go in on that fide, the Middle Girotind it felt having but 10 to 11 Foot upon it at low Water. There is a Chamel indeed on the infide of the Shoal, clofe under the Cape: but there are fo many Shoals lie off in the Entrance on that fide in particular, that a Stranger flould by no memego in with Cape Chartes unlets he is fumithed with an Whe Pilot: On the contrary, on the other fide under Cape Hinrv, you havegood Soundings and deep Water.

When you are off at Soa, and firit make the Capes at the diflance of $\rightarrow$ to 8 I.s, you have gradual Shoalings in io to 11 Fa and from that tog Fa. If you are a little to the fouthward, you will have 35 to $;$ Fat ac the lame diflance; and by that Difference you will know if you have over- hot the Capes. At 10 to 12 I.s in I.ar. : 5 you have 40 to 60 Fa.

The Land of the Cap s is low, and the Shore as well to the S. as to the N . is flat oif, fo that you camot tee the Coalt at - Ls Ofting: And this, with the uncertainty of the Currents upon the Coatt, ts one Reaton why many otherwite skilful Marinere ntien out-rim their dead Reckoning, and thoot beyoud the buesbetorethey make the Land.

It selift to be oblerved, that in coming from England to liggain, even betore you have any Soundings at the ditance of e I sfom the Land, you will fund a fieree Current Jetting to the northward and the callward; and the nearer you come to the Land, the more it lets to the northward, till you come to have Somdinss in fo to 50 lia. diflance from the Land 16 (1) : I S : Then you will find the Current abare, and coming me hinaler Waser, zu: into $=0$ to 15 Fa . Which you do as is

15 g Is; theB and the Mout not lets than moft of them Harbours wit! Convenicuce neither is ther cover'd, whet Ships go in N . into the gr yet the greate to it, navighl others fall im way $N$. and them, and aln and land lock the Mariner Place ; 'tis cable; and th Pilot.

From Capc lina: The fir diftance from between. Th lics S. you mut Shoal which li into the Sca. E. Courle you feveral Openin tcras; but as on the Sea Co little known. marle River, Carolina.

From hence Cape Hatteras the Courle is Rivers and Bay many good H rolina is bue the Coaft has it has; fo that Off of Cap into the Sca dt finall thread, a Sand a tull L in

On the W. Clarendon $\underset{\text { dit }}{ }$ But we have ur the Shoals or

From Ciap by W. to Cidice Coalt and yoon

15 5 Ls ; the Bay within widens in fome places to a vaft breadth; and the Mouth of 'l'otowmack River falling into the Bay, is not lets than $7 \frac{1}{3}$ l.s over: The Chamels are all very good, moft of them clean and deep; and chere are fuch innumerable Harbours within Harbours, and Roads within Roads, for the Convenience of Shipping, that the like is not in the World ; neither is there any River, Gulph, or Bay in any part yet difcover'd, where there are equal Advantages for Navigation.

Ships go in here a great way W. and then run 160 Miles up N. into the great Bay; which tho it Celf but a navigable River, yet the greatelt Ships sun up 200 Miles: Other Rivers fall in . to it, navigable 150 to 160 Milcs wide from the BayW. others fall into thole Rivers navigable 50 to 60 Miles either way N . and S . and to of others again : And in all of them, and almoft in every Creck, deep Water, toft Ground. and land lock'd from all Winds. I need lay no more to tell the Marincr why he has not particular Directions for every Place ; 'tis cnough to lay it would be cudlets and impracticable; and that wherever he is to go, he may be furc of a Pilot.

From Cape IUenry the Shore falls away to the S. to Caro. lina: The firlt part of the Courte is duc S. to Cape Hatteras, diftance from the Offing of the Capes 40 Ls, no Place of note between. This Cape lies in Lat. 35 d. 5 m . But tho the Coalt lics S. you mult ftcer S. by E. or S.S.E. to go withour a Riffor Shoal which lies off of the Cape. ftretching above 20 Miles into the Sea. The Shoal cannot be gone over ; but in a S. by E. Courle you willgo all the way in 15 to 20 Fa . There are leveral Openings on the Coalt betore you come to Cape Hattoras; but as the Country next to Virginia is not fully planted on the Sca Coalt, thofe Openings are of little Ufe, and but little known. The Opening at this Cape goes into Albemarle River, which is the moft northerly Hatbour of Nerth Carolina.

From hence the Coaft falls off to the W. fo much, that from Cape Hatteras to Cape fear, which is no lefs than jo Ls, the Courfe is all S.W. and S.W. by W. There are divers large Rivers and Bays, with teveral Illands and Ports, and elpecially many good Harbours and Roads: But as this Colony of Carolina is bur a young Settement, compared with the others, the Coaft has not been fo fully turrey'd, at lealt we cannot find it has; to that we mult pals it with the lets Obfervation.

Off of Cape Fear there runs a Spit of Sand tor 7 L.s our into the Sca due S. and at the End of it, atter narrowing to a. fimall thread, almoft to nothing, it ends in a large Cinte of Sand a tull L in Diameter.

On the W. fide of this Cape comes in a large Rince calld Clarcudnn ficier, which is capable of receivingenot Ships: But we have no Accont of the Depths of the Chaned, if of the Shoals or Soundngs in it, or in the Entrance nito at.

From Cape lew the Cont trends in the hame Cole S.iV. by W. to Cafe Catain, dift. almot is Le: There is a ctan coalt and good sounting all the why and foon thance the Conle

Courfe abates one Pomt, and lics S.W. to Athey and Conper's along th Rewers, the dilance trom Clidendon River is Ls. This d/l/. Les Riter lies exaclly in Lat. $j=\mathrm{d} .45 \mathrm{~m}$. and to the wetward of the Landes-End of England ano Ls.

In your making this Coaft from the Sca, when you come withini 60 to +L L of the Shore in the Latitude of the Country, you will ted a trong Current ferting to the N.E. jult as is mentiond above in comang the Coutt of $l$ irginal.

When you have a truc Obfervation, and find you are ia the cuat Latitude of the Ilace, run boldy m ; and at about 25 L.s fiom the Land you will have Sourdugs in zo Fa. and then you find no Currentarall, but youmay trutt to the fimple Motion of the Ship to recken by. Thus you may thand in bokd tor the tery River, till you come to of Fa. thwart the Bar, a:ad there you may anchor in very good Gromad.

Upen the Bir you have; Fa at high Water, but no more than is Foot at low Water: But when you are in, you have 4 to 6 Fa and no where lets than 3 .
$N$. $B$. It cbbs at the Bar of Aliley River an Hour and half betore it ebbs at tie Point calld ()y/fer Powt. The beft going in is an Hour and half before high Water.
$N$. $B$. If you are not acenimed with the chanmel, lic by off the Bar, and make a Stymal for a Pilot: Nor mith you go out without one
From cill te River to Port Roal the Courfe is S.W. by S. $1=$ Is If you are bound hither from the Sca , ftand dircitly in W. When you are in $3=$ d. 6 m . Lat. When you come into Soundins, and find $=0$ to 25 Fa. you may depend you are withon:5 L.s of the land. hecp on thail till you make the 1 and, which will not be thll you are wathin 61 s of it, nor then matsts the Westher be clear ; for the Coaft lies low, and the Nountans which are up in the Country are too tar off, to hew themideles far out at Sca.

The Woods upon the fiat Country are gencrally feen firft, for the Trees are exceeding tall, and hew themfelves a great way: When you firt fee the Trecs, you will be in about + and ; Fa. hecp your l.cad going, it the Weather is thick, tor in that Depeh you will be within $1:$ L off of St. Michacl's. beat

Oll of St. Afichacl's.bead there is a great Shoal: You muft On amay W. Wy S. to go round the Point of it ; then you will tee the Breakers upon a Shoal calld Cole's Clare. Clofe to the Sand you will have 4 , to 4 Fa . you may flecr clote to it, for it is ftcep too; and leaving it on your Starboard fide, go on till jou fee another Breaking, which is on a Shoal call'd Man tia's /udulloy. Between thote two Sands goes in the Channol to the Haven of 'Port Roval: 'Tis a broad Channel at Icalt a Mile over ; and in the Fair Way you lave ${ }_{4}$ Fa at Icalt every whers.

Bengs open with the Channel, fteer in W. or W. hy N. till youbring a Point, which you will fee over your StarboardBow, to bear N.N.W. this is call'd 'Pbilhp's Yoint. Go right with that Point, and you will have 7 to ${ }_{9} \mathrm{Fa}$. When you are a breaft of the Point, kecp a litele off, and go away N. by

River $h$
Ithand or
Florida
lyiug to unto th Florida dimes, this way

N: ral ya Wad it an dn Ciu tor This Ml.ands, fouthwa otherwi calliry the Rea theninel

The great South ranjing Baiks; of the

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## for the Coafts of Virginia aid Maryland.

1 Conper's along the S. Coalt of the Main, and by the Mouth of the great

This $d / / 1$.
: wedtward
you come the Coun. jult as is
are inthe about $2 ;$ and then the fimple y fland in hwatt the

It no more you have
ur and half 2ht. The atcr.
ucl, lic by Nor muilt
S.W.by S. ad dircitly come into d you are u make the $r$, nor then $v$, and the fif to Shew
$y$ lecn firft, cs a great in about 4 is thick, Michacl's.

You mult then you re. Clole er clote to board fide, bhoal call'd the Ch.m. Channel at Fa. at Icatt
by N. till Starboardoint. (io When you way N. by

River Miflifippi, they come on between the N. part of the lland of Ciuba and the S.E. head Land of smerica, call'd Ciape Florida, where the Illands and Shoals call'd the Baloama Bank, lying to the caltward, giving them another Check, they drive yp of the northward thro the great Palfage call'd the Gulph of IForida, between the Illands and Shoals call'd New 'Providence, or the Babamas, and the Coalt of Florida ; and by this way dikemboguc themelses into the great Ocean.
N. $B$. This Current is to fierce, that tho the Winds generally blow tair to go thro' the Gulph to the touthward, yet 'tis very rarcly that any Ships attempe to force thro' that Way: lor if the Wind blow very hard againtt the Current it makes oo great a Sea, that Ships can hardly live in it ; and if it be calm, or but little Wind, they are liure to be drwen back quite out of the Gulph, for the foree of the Current is fich, that the greateft Anchors are immediately torn out of the Ground by it.
This is the Reaton why all European Ships bound to the llands, or to any of the Ports of Mixico, go away to the louthward, and do not make for this Gulph, which would otherwite be mach the thorter Voyage: And tis theretore ne. cofliry that all Mariners ufing this Trade thould be Mafters of the Realon and Nature of thele Currents, that they may guide themelies accordingly.

The Coaft of florida, which makes the W. fide of this great (iulph, lies dae N. and S. trom the fouthermoft Coalt of Sout's Carolina, from Lat. 31 d .40 m . to Lat. 2.4 d .45 m . ransing oppofite to, and parallel with the two great had,ama Baiks; which, as above, are the Caule of turning the Courle of the Sca up the Chamed of the Gulph with fuch Violence.

The Spantards have a Port on the N. part of this Coaft calldd lout St. Autuftint', where they have a good Harbour in Lat. 30 d . They have alto another mall Harbour at St. Matthe es ; at both there are good Bays, in which there is Aus. chorage for large Fleets on Occafion.

South of thele Ports it is all a dangerous flat Coalt, execpe a linall Inlet call'd the Bay of Mufquetos; from whence to the End of the Gulph, and round to Cape Florida, there is a Shoal of Sand lies off Shore for more than 2 Ls; fo that if any Ships come on Shore here, there is nothing but prefent death before them, as was the Cale of a whole Fleet of Spams/h, Galloons, loft here with an immente Treature, about the Year 1716.

At the fouthermolt part of this Coaft lic abundance of Rocks among the Shoals, which makes the Coaft thill the worle, and at the Extremity S. lic a Clufter of great Rocks or Illands, as fome Charts call them, callid the Alartiors: There is no coming near them bue at the utmont peril, being all furromaded with Shoals of Sands. Thele Martacr's reach along Shore E. and W. 12 Ls.

Weft from thele Rocks, and diftance from the caftermoft of them 20 Ls, lics the Point of Land calld Cape Floride. ftretching out far into the Sca S.WV. but W. by S. from the Flats
ands h. hecp your lead going, it the Weathor is thick, for in that Depth you will be within a'L off of St. Michat's. biciot.

Oll of S: Micharl's bead there is a great Shoal: You muft :0 awn W'. ly S. to go ronnd the Point of it ; then you will dee che Brakers upon a Shoal calld Cole's Chare. Clofe to the Sand you will have ${ }_{4}$; to + Fa. you may ftecr clote to it, for it is ftec too ; and leaving it on your Starboard fide, go on till jou dee another breaking. Wheh is on a Shoal callid Alartia's lidinfly. Between thote two Sands goes in the Chimnel to the Haven of Port Rova!: 'Tis a broad Chamel at Ieaft a Mile over; and in the fair Way you have ${ }_{q}$ Fa at leatt crery where.

Being open with the Channel, fecr in W. or W. by N. till youbrang a Point, which you will fec over your StarboardBow, to bear N.N.W. this is calld Pbilep's Point. (io right with that Point, and you will have 7 to 9 Fa. When you are a breaft of the Point, keep a litte off; and go away N. by W. half W. till you come into 6 and 5 Fa . There you have a fine lite Harbour, good Ground, and land-lock'd from an Winds on every fide.
‥ $B$. It is to be obferv'd, that all the Winds from a N.E. to a S.E. bring in a high Tide here, and upon all this Coatt. and generally alter the Courle of the Flood.
$\therefore . l 3$. At Full and Chanes in llows here S.E. by E. and N.W. by W. the flood fetting always to the northward, and atter you are above o Ls trom the Shore, there is no Tideatall.
From this dourhmof Coaft of Carolina we may begin to mention the Ciall'ts of Florida, for the Currents of the Culph are felt thess far: A hort Account of thete Currents, and of their being to violent in this Patt, is necdful to be given here once for all, and is as follows.

It is wall known that to the fouthward, and among the Caribuece flatads, the N.E. Winds blow Trade continually, without any Alteration, from off the Sca, and almolt from the Coalt of Afirica to thole Ithands, Which are thercfore call'd the Lerward I/hands.

This conftant Wind naturally carrying the Sca along with it, the Water is forced along between tise S.W. end of the Hand Cuba and the N.E. Point of the Province of "Iucatan. into the great Bay of Mexico; where bemg refifted by the man Land at the Bottom of the Bay, the werght of Water prolling flell forward, ehey necolfarily drwe away to the N.W. part ot the Bay; and making their way with an irrefiftible fury
her is llick, t. Michacl's.

1: You muft ; then you lare Clole teer clole to carboard fide, a Shoal callid in the Chint Channet at ${ }_{+}$Fa. at Icalt
W. by N . till ir StarboardPoint. (io When you away N.by c you have a k'd from a
om a N.E. to 11 this Coult,
E. and N.W. thward, and there is no
ay begin to of the Gulph cuts, and of e given here
nong the Canually, withon the Coatt re call'd the
along with - and of the of "fucatan, fifted by the ht of Water to the N.W. rcfiftible fury

South of theic l'onts it is all a damerous that Coafl, except a limall Inlet called the Biay of Mufinetus; from whence to the End of the Gulph, and round to Cape Florida, there is a Shoal of Sand lics ofl Shore for more than 2 Ls ; to that if any Ships come on Shore here, there is nothing but pretent death before them, as was the Cate of a whole Fleet of S'puill, Gialloons, loft here with an imnente Ticaliare, about the Y'car 1716.

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Weft from thete Rocks, and diflance from the caftermoft of them zo Ls, lics the Point of Land callid Cape Florada, itrecthing out far into the Sca S.W. but W. by S. from the Flats of the Martures: And farther W. by S. from the Point lie three Ithmeds, in a triangular Situation, calld the Tortugar.

Ealt from the Shore of Fibride, and making the other fide of the Gulph in conjuction with the Banks mentiond above, lic the Batboma ! flands: The Narigation of them is of finall import, and the Number of the Chamels among then beng like the lllands themelves, innumerable, are not to be defcribed.

The Grand Babama Bank lies here between thefe Scas and the Babama Iflands: This Bank begions at a litele namelels Ifland in L.at. 21 d .40 m . oppofite to Cafe Cimis, on the N.E. Shore of "re Illand of Cuba. The Channel between Cape Cruis, and the Shoal or Bank, is call'd the Old Streights of Babama; the Far Way of the Streighe at the Point is 8 l.s broad, tho ftraitned on the S. fide by fome Rocks and little Illands on the fide of Citud. From this Point the Bank trends away to the N.W. all the way eds'd with Rocks on the S.W. and W. fide, as it is with Inands on the N.E. fide, as tar as to the Tropick inLat. 2 d. 4 mm . and then turning duc N . makes, above, the E. fide of the Entrance into the Gulph of Flortda, calld, becaule of the Bank, the Cbannel of Babama; containing this Courfe N. a little cafterly for above 40 Ls, being to the Lat. of 25 d .40 m . On the E. fide of this Bank are the Illands of shadro/s, Providence, and the rett of the Babamaz 1/fands. N. B. This I take to be the largeft Bank of Sand in the known World, being 120 Ls in length, and at the S.E. cad ${ }^{4} 5 \mathrm{Ls}$ in breadth.

# Sailing Directions for the Coafts of the IJlands on the Newfoundland inclufive, to the Barmudas; and t Tobago inclufive. 



HO this Patt is call'd lailing Directious for the I/Lunds of America, yet we muft acquaint the Reader that we are to be under ftood only of the dittant and more confiderable Illands, fuch as lying remore from the Contincent, are known in Trade aud Navigation; and that the finall and Iefs confiderable Iflands, elpecially fuch as lie near the Main, are omitted, either where no juft Occafion made it neceflary to lpeak of them, or where it was neceffary to mention them, they are fpoken of, and the Navigation and Coafts directed and deferib'd, at the lame time as the adjacent Continent is defcrib'd or directed to.

The Realon of this is fully accounted for in our Geographical Part, and particularly in fpeaking of the Iflands on the Coaft of Italy: And the fame Reafons hold good here, with this Addition, viz. That in the navigating Part it is not practicable to give full Drections for failing upon the Coaft, and not include an Account of thofe Illands which lic contiguous, and fo near as to be within linall Diftances from the Main. For,

1. In many Places the Riffs and Shoals to be avoided in the going iuto fuch and fuch Harbours, Roads, and Bays as are deficribd, run out from, or fome way or other join to fuch Illands; fo that one cannor be deterib'd without the other, as is evident on this very Coant, at Loung Ifland by New York, Smitl's Ifland at the Capes of Virsiniu, Rbode Ifland, Martin's Vincyard, \&'c. on the Coaft of New England; the Mand of Ciofpe at Cape Breton, and innumerable others.
2. Multitudes of thefe iflands could not be deferib'd withour the Contincur, any more than the Continent without them; the Marks for entring the Ports being reciprocally afliftant one to another; fo that it would be perfectly incohereat not to ficak of them together.

The following Dircctions thercfore for failing upon the Coafts of the Iflands, are to be underftood chicfly of fuch, as, ly ing remote from the Coaft of the Main, are of importance, as well for Commerce, as for Navigation, and as are not fipoken of in our failing Directions for the adjacent Coafts: And we begin with the illand of Newfoundland, not only as it is the greateft Ifand in the American Seas, and the moft fignificant in Navigation, but as by its Situation ic comes to be firft fpoken to, being the moft northerly Ifland upon the Coaft of Ancrica, from the Entrance iuto Hudfon's Bay fouthward.

Sailing 'Jirections for the Eaft and South Coafts of the great Iflund of Newfoundland, or fo much thereof as is

Rock ; y may fer

The 1 Point al N.E. and out betw the Harb filling.pla

The H it lics N , on cither good Ship

1. Clica ing in.
2. $A(d)$ to the w good anct
3. Vica board-fide lock'd fro 4. Anc W. wher In the 6 to 14 , About the Court and Bays Boats ma in a Stori flaved ag: Heads is lic N . anc

From but a Mil lying of W.N.W. of the $\mathbf{E}$ 'tis bold a Harbour Dock, fo your Ship with the

From
the Cour
from the

## IJlands on the Eaft fide of North America, from rmudas; and thence to the Caribbee Illands, and to

e Iflunds der that and more rom the 1 that the lic near on made effary to tion and adjacent

## Geogra-

 ds on the erc, with not pracoaft, and ntiguous, he Main.Ied in the s as are 2 to fuch other, as ew York, nd, Marthe Ifland b'd with. put them; iftant one at not to
upon the of fuch, portance, ot lpoken And we it is the Tignificant to be firft Coaft of ward.

Rock ; you may go on cithcr fide of it, for 'ris bold, and you may fee this Rock; Ls off to Sea in clear Weather.

The next Harbour is Formoices, diftant from Renowes Point a L and half, its Situation from R:nowes N.E. by N. N.E. and N. trending about the Points of Land that ftretch our berween them ; but the Courfe is N.N.E. till you open the Harbour. Berween thele Harbours is Bears Coze, a good filhing.place for Boats, but a wild uninhabited Country.

The Harbour of Fermowes is good, and the going in bold; it lics $\mathbf{N}, \mathbf{W}$. in, and N.W. by $\mathbf{N}$. and there are ieveral Coves on cither fide when you are in, molt of then able to recive good Ships; luch as,

1. Clear's Coze, on the N. which is the Starboard-fide going in.
2. Admiral's Coue, on the lame fide, but a litele farther in to the weftward. In this laft there is 7 to 8 Fa. Water, good anchoring, well fecured, and a Plamtation on Shore.
3. Vice-Admiral's Covee, tarther in, but on the other or Lar-board-fide. Here a Flecr may ride in good Ground, and landlock'd from all Winds.
4. Another Cove, but nam:Iffs, on the fame fide farther in W. where alfo is an excelleur Harbour for great Ships.

In the Entrance of Permowes you have 20 Fa. Within from 6 to 14, good Gromend, and all late ; it runs up $1 \div \mathrm{L}$ at leaft.
About a L beyond Fermozies N.N.E. lics $A$ y ta Fort, but the Courfe is N.E. In this little diftance here are two Heads, and Bays within them, about a Mile ditant from one another: Boats may go into thole Beys to filh, bur no offerng to land in a Storm, how great foever the Neceffity, for you will be flaved againft the Rocks. The firft and fouthermott of thetc Heads is call'd Bal:d Head, and the ficcond Black Head; they lic N . and S . from one another.

From Black Head to the Point of Aniut Fort Harbour is but a Mile, but the Courtic is N.W. by N. occafion'd by the lying of the Point ; and the Entrance into the Harbour is W.N.W. the diftance between is a thort Mile. On the S. fide of the Entrance lics a great Rock, but not dangerous, becauic 'tis bold and above Water: The Road is on the N. fide of the Harbour about 2 Miles in, there you lic as fafe as in a wet Dock, fo near the Shore, that you may make a Stage from your Ship to your Fills.Stage a-hore, and load your Vetct with the greatelt cale inaginable.

From hence'tis 3 Miles to the S. part of Fcryland bead, the Courfe E. and a Mile of the way lics Chow, I/luad. ENE. from the S.E. end of that Hand lies a Shoal ahout a Cable's
2. Multtudes of thefe Iflands could not be deferib'd without the Contment, any more than the Continent without them; the Marks for entring the Ports being reciprocally affiftant one to another; fo that it would be perfectly incoherent not to fpeak of them together.

The following Directions therefore for failing upon the Coalts of the Illands, are to be underftood chiefly of fuch, as, lying remote from the Coaft of the Main, are of importance, as well tor Commerce, as for Navigation, and as are not fpoken of in our failing Dircctions for the adjacent Coafts: And we beyin with the llland of Newfonndhend, not only as it is the greatelt Ifland in the Anervican Seas, and the moft fignificant in Navigation, but as by its Situation it comes to be firft tpoken to, being the moft northerly Ifland upon the Coaft of Ancrica, from the Entrance into Lludfon's Bay fouthward.

Sailins 'Directions for the' Eaft and South Coafts of the scat Iflated of Newfoundland, or fo much thereof as is fill! fivery'd; the North and Eaft Parts, and thofe fore. merly pollcysid ly the French, becias not yet finiflb'd.

CA PE Race is the utmoft Point of Newfoundland S.E. From whence to the N. coaftimg along the eaftern Shore, you will find it full of deep Bays, large Coves and Rivers, and mon excellent Harbours, all very uletul to the Einglifh Sailors, who much frequent the Coaft, either for the white Fifhing off at Se., or for the Salmon Fifling in the Crecks and Rivers.

From this Cafee Race northward the fint head Land is Cape Rallard, dift. about + Ls, the Courte is N.N.E. Mid-way between them is Glam Coze, a fmall Place, only fit to receive finall Filhing-Boats; N. from which is Chain Cove of the like uif. There are fome Rocks before this laft, but no Harbour or anchoring-place beween the two Capes for Ships of burden, of ronin for them to come in to filh; to that Slips ride in the Ofing, os oo tarther $N$ to Frefh. watter Bay, and fend their Boate into thele Coves to filh.

Finell-azter Bay is about + Wilies from Cape Ballurd; and ${ }_{4}$ Nales beyond that, is the Hatiour of Renowes, which before the latt Peace with fratace was the fouthermoft Harbour poideffed by the Eingli/h in Newfonnduand; the $/$ rench being Mafters of all the S. and S.E. Shores of the Ifland. The S. Pomt of the Habour is diflant from Cape Ballard $=$ Ls; 'tis but an indifferent Harbout to put in at, there being many Dangers in the Entrance. fo that a Pilot is very neceffary for shote who are unacyuanted with the Place; but'tis a good Harbour to fith in, and therefore in the Scalon it is coverd with Boats and Shallops.
N.B. When a Ship is pilored in, there is not above 15 Foot, and but very hetle Drits, the Shoais, which are many, matercepring the Curreat.
There is a finall Inand lying a litte from the S.E. Point of the Eutrance into Rinowes Mlurbow ; and about halt a $L$ trom the S. Pome lies a groat ligh Ruck S.E.by E. calld Renowes

Boat in a flave Head lic $N$ Fr but lying W.N of $t$ 'ris $b$ Hart Doc your with

F
efcrib'd withvithout them; y afliftant one jercat not to
ug upon the iicfly of fuch, f importance, are not lpoken afts: And we ly as it is the oft fignificant ies to be firft the Coaft of uthward.

Coafts of the thereof as is and thofe for. ini/b'd.
inndland S.E. caftern Shore, d Rivers, and 'uglifh Sailors, ite Filhing off ad Rivers.
Land is Cape E. Mid-way fit to receive ic of the like o Harbour or s of burden, ips ride in the ad fend their

Ballard ; and which before Harbour pol: l- rench, being and. The S. $r d=$ Ls; 'tis $=$ boing many neceffary tor $t$ 'tis a good it is cover'd
not above 15 which are ma-
S.E. Point of half a $L$ from all'd Renowics

W,
Boats may go into thole Bays to filh, but no offering to land in a Storm, how great loever the Neceflity, for you will be ftaved againft the Rocks. The firft and fourhermolt of thete Heads is call'd Balit Head, and the ficcond Black Head; thay lic $N$. and $S$. from one another.

From Black Head to the Point of Apua Fort Harbour is but a Mile, but the Courfe is N.W. by N. occafion'd by the lying of the Point; and the Entrance into the Harbour is W.N.W. :he diftance between is a fhort Mile. On the S. fide of the Entrance lies a great Rock, but not dangerous, becauie 'tis bold and above Water: The Road is on the N. fide of the Harbour about 2 Miles in, there you lic as fafe as in a wee: Dock, fo near the Shore, that you may make a Stage from your Ship to your Filh-Stage a-thore, and load your VcITe! with the greatelt calc innaginable.

From hence'tis 3 Miles to the S. part of Ferrylated bead, the Courle E. and a Mile of the way lies Crow Jland. E.N.E. from the S.E. end of that Illand lies a Shoal about a Cable's length off; give the Inand a Birth, and you go clear of it. From the N. part of the Head to Ferryland Harbour, the diftance is but 2 Miles, yet the Courfe alters to W. by N. To go in there, you mult lail between the N. fide of the Head and Buoy Iflund; the Channel is narrow, but deep, and the Ground clean: When you are thro' there is room cnoush, and good riding on any fide as the Winds may lie. There is a place on the Larboard fide, which they call the Pool; as you go, it lies behind a beachy Point.

You have ${ }_{2}$ Fa. there at low Water, and there the Admira! Fifhermen generally ride, the Stages for the Fifh lying very near, and feveral Plantations and luhabitants on Shore. From this Buoy Illand there are feveral orher litele Illands, or Roeks rather, which terve to make the Harbour the more fecure, and Which divide the Place it felf from another Inlet calld Capline Buy: You may go thro' among them in leveral Places with finall Boats, but not with larger Veffils.
N. B. The Tide riles here not above 3 to 5 Foor, and the like in moft of the Habbours on this Coalt.
Four Niiles from Ferrgland./fiad lies Brogle.bead, the Courfe N. by E. There are; Inands in the middway, riz. buoy If.not, Goofe Ifland, and Stome Ifland, all lying off the Entrance into Caplin Bay: Between the two firlt $y$ ou may bill into the Bay, the Palfage is broad enoigh for good Ships to turn in, if they pleale; but no Ships can pals between Stone If? and and the Main, which is Cape Broyle' ; there is a Chamel mded at the Cape, but it is interrupted by a Rock; however Beats may go in there at pleatire.

Caplin Bay is a very good Road, it runs in W.N.W' at Icatt 2 Ls beyond thete blands, and there is very biti lyms wor
 vous very often in time of War, and when they wat ter Cow voy to the Striephts, or to the Conft of S'ant

From Provle beadra Harbour callilby the tame Name lies W.N.W. and N.W. by W. the ordmary Coatc, and thea the

## Suliling Direflions for the

diffatice is: : 1 : $:$ bur it ion fand off. 'tis fomethure more. The butrane betwen the Points is abour a Mates, and they the N by W. and S. by E. one from the other.

About : of a Milc E.SE. fiom the N. Point of thas Harbour, hes a tunk Rock calld ohitian? tho there is : Far Water uponit, yot the Sea in bad Weather braks moth turnoufly upenit: On the one fide of it thare is a Docige of Rocks, lyme mah hout the tamedepth, and where they med to tith.

Withon thote Rows there is a good Chamal with $1: \mathbf{t o} 1$; F.a and jult withour the I.edge there is to to 50 Fa and in tome phaces much more: The Raze of the Sea is tind upon theic Rocks, that tomes in wery bid Weather it breaks oicr all yuic trom them, and reaches to the Main: This is occafionid by we Curche wheh encuenlly Iets ftrong to the louthward

1,om (aige Brow to a. Sirins is a I., the from the North Hoat of the Bay it is but a Mite. Rerens lics in N.W. and N.W. by W. 'Tis a fimall Harbour or Core, fit only for Veffels draming - to is foot Water, nother are they well fectured whon they ane m: but it a good lhace for filheng, and there are wo dibithallamers lice on Shore, who furmith Provifions and Retichments to the Scamen. There is an Ihatat of the fame Name, where the fillme Trade is camed on, and Whare they who come a fithing buld then Stapes, and make thar tihh, as they call it: But tis all a Place of fimall hapre tance

From hence to Caf Nes?

 Trade or Ningatonn.

There are a alutitude of hetcle Coves all along tepon this

a1. : Lamenter, a mall Cone : Bandere a bage




 fin...

Al thece except the liok of bults and It ithis bana are In...it itato un, and tor tmat! Vefiels: They he gencraty of
 mortherly, except $1{ }^{\prime}$ athes $k$ an, which is fad to lic N.N.W.
 They are all good fillung Harbours, but for Boats only.
"I rícfi lide hics a large L withun Ginll ! flend ; great Ships may mide in it, but not with fuch fatecy as in other Places on this Coart : The Entrance is tair. On the N. fide of the Bay. half m, lien a lodge of Rocks, but they are moft of them above Water: Thes is a tolcrable sinod Bay, becaute of cinll and fisat thend, which lee without it, and coler of trom the biads off Sca; you may fall between them, or betwe 11 tham and the Soa: yet Ship tho not care to rude here, but


## Tions for the Iflaind of Newfourdtand.

nomethin! more. Hilcs, and they

It of this Harthacre is: F.a. caks moll turlcatye ot Rocks, hace med to tith.
 ${ }_{50}$ For and 11 $\therefore$ is tud upon braks oser all his is occationd he fouthward from the North ics in $\mathrm{N} . W$. and only for Veffels ey well lecured dhing. and there on funim Provi. te is an Ithat of c.arced onl, and twes, mud make of tmall lapr r
, the fiom r.aly noithatly Beof no colicent
along upno this Batheroverd. cill. Mect, a brage is a poor Place. 7. (ionfe Iflat, (anc - In
c.N. Pome of the 11. 11. Bay of
tathes Bon, are lac gencrally in by Eto NN.E. id to lic N.N.W. It 3 Is and halt. 3oats only. and; grait Ships otleer Places on fide of the Bay. c moft of them becante of cirlll d cover it from cm. or betwo 11 , rude licre. but above atmod 1
is 6 Is : Between thomate feveral litte Cones, as Cop Pery, CBadman's Ba, and linatwat Bal.

This is the chact Harlume m the fland, as well for the Number of Ships and Smacks cmploys, as alfo for its heing the head Colony on the Man! : The Entrance is not above
 very Rock's Nole ; and yet the deepeth between the Poiuts is 16 to 1 - F.u. 1 lics in W.N.W.
There are alto two Rocks in the very Entrance, one on cach fide; which reduces the Eutrance on os Fi. or 190 Yards. Beng palt thete Rocks, you may rom in boldy; and anchor
 behind one of thete Rocks; a litelenithin Ring Noon there lics a tuink Rock about so to 60 Yardsfrom the Shore, but 'tis well known.

You camor fail in here but with a Windgood ar S.W. or mu h foutherly : then the Wind catts in between the two Hills, wll you are byond the Narrow, and then you have room cnowh: But in it blows at W.S W. or tarther W. the Wind will blow right out, and hen if you will go in, you mutt be conitent to warp 1 .

It 15 ordmary tor Ships not weil ajominted here, to mithake the Enerance into ilns Hathour fior mother wery like it, and
 hars beria; it looks as fur tor a sood Harbour as this of St "fon bur when you come to it has un Entrance but for tmall keat.: Vom may know the Mock harbour by a bare round Hill collat ('math's that, and whath makes at Sa hice a haycock In fult at the S. Dome of the Eatrance moto the Kowe 1 uns, and to the northward of Si. Yobsis; but your Couste tom Cute dperar will gude you.

Irom. Sr. 'Varn's the nexe Harthur is calld Tirbeg: There
 ohd's Heack manal to from the Hhll abore-mentomed.


 and 5. Ligebshetneen them: Then 6. The S. Pount of Torba, ditt froin Red Ihedabour \& Miles, the Courte N. by W. hial wedtorly: And hatly, From the S. Pome of lorbay to the Road or anchormeplace, where the Shups mitulls he. the Coutle is W. Dy N. there you ancher in $1+1$ i. oppofite to Ciremis Core, and dift. from the S. Pone amofl a I. Rem: mader the N. Point, the Bay is hares, above a L oncr trona Pour to Point: Thas N. Point is calld the lizer Rock.

If you come trom :he N ablout the bout, your Courfe man the Pay is SW . 'Tis an open whld R candor a Wend oft Sas: The ditance fiom St. Yo 'an's to this Bay is about $=: 1 \mathrm{~s}$, and the Courte N. by E:

About halt' a I ditt. from the Flat Rere yoint. lice Read
 Nonth the dilmee is 2 I.c, the Courte N. by W halt 16.
 limali harbous and for lma! V Velicls: They lic gencrally in a Lane woa the Coalt from Batinc-bea / N. by E. to N.N.E. northorly, except 11 \%i/fof him, which is dad to lic N.N.W. 'Thes 11 ithes Ba lies from Ralmer-Headabout ; Is and half. They are all good fithing Harbours, but for Boats only.

If it'ifs lidy lics a large I. within Gall Ifland; grcat Ships may ride in it, but pot with lieh latety as in other Places on this Coalt: The Entrance is fair. On the N. fide of the Bay, halt m, hes a Ledge of Rocks, but they are molt of them abore Wiater: This is a tolerable good bay, becatie of Githl ant civion ! thath, which lic whthour it, and cover it trom the $1{ }^{\prime \prime}$ nads off Sea; you may tail betwen them, or betwen them and the Soa; yet Ships do not care to rude licre but come u! to the $\dot{B}$ ay of Biths, which is not above a good L t.0日: 15.

From Cap: Biogh to the Bav of Rulls it is but F Is, tho there are to many Conssbetwen ; the Comte is N. by E. halt whtely about 1 a Mac from the S. Head of this Bay hes the fit.. He that, the Courle N.E: northerly ; and the Bay socs mbowenn. Here is good mong and good thelecr in is to 2 Fr

Here the fihme Admirals keep their Station, and have their Stuge on Shore ma Cove jutt beyond Brazd andWhel Point,
 thes Dont a little Birth, becaute of a timk Rock, which lies ofi about half a Cable's lengih ; all the reft of the Bay is bold and ftecp too.

Atteryou are paft the loint, you may go up and anchor in $1 ;$ to $1+$ Fa. bringing gohn Clas's Hill to bear N.N.W. that depeh you have from fide of fide; but the Merchants Ships rem up farther mon 8 aid y Fa. Here generally the filhing Flects are made up, in order to hal tor the soterers, which
 /ia. nowe halt a Mile cocr.
 the Couric N.t. ly. Nuthe way altep dead shore; weither Creck or Cote, what is not ordmary on this fide of the diand. Mhinay on tha shorest the famons Place calld the Spout, bens a hotlow line m the Rocks, whech the Sea pourine verenty meto, mind whhwing a Vont at the top,
 ont at the Vent lite the Spouts of a Whale, but much greater, fothat they arefen a grat way oll at Sca.
l'ept Jhobera is a barge lay a L over at the Entrance Now. and ss L. and a! mon theplace where the bhys ride


Two Nules tather N.E. by N. Wes Ciape spear, from whence the Could trends to the N.W. Wh Medpedt, and to on to the


Point of the
NT.byN. 3. Sisin-lorf 'oom, dm. from Sma!! 'oont h.ult a I.. N. hy E. t. Red lical, rwo Miles N. from Satar-ladf; and 5. Lene bia between them: Then 6. The S. Point of Torbar, dift. from Red Head about \& Miles, the Courli N. by W. hilt wedterly. Andlattly, From the S. Point of I Orboby to the Road or anchormeplace, where the Ships utually lie. the Courfe is W. by N. there you anchor in if la. oppofite to Gretis Corer, and dit. from the S. Doint almoft a L. Bemy under the N. Point, the Bay is large, above a $L$ over from Point to Point: This N. Point is calld the liot Rock.

It you come from the N . about the l'ont, your Courfe into the Bay is SW. 'Tis an open wild Roadfice Wind off Sca: The dittance fom it. "fobin's to this Buy is about $2: \mathrm{Ls}$, and the Courle N. by E

About halt a L. dilt. from the Flat Rece troint. lies Ricd Moad by Nontl, the Counti N. by W. and to Plack Hiad thy Nonth the dafluce is 2 Lse, the Courle N. by W. halt W. From the dime Plat Reck to Cape St. livateir the Courte is N.W. the dift. from Rlace Ilcad; Miles, from the C'at に, almoll + Ls.

Sate S\%. lidneis is a whith loint, low Land; and in the Onfing you wall be pt to miltate the Hall within it for the Cape, which may he dugeroms borwecn dark and hogh. On the $S$ fide within the Cupe is shoe Coer, where the Fithingboats go a Tiltine:

N: $/ 3$. Tultug is, when the Boats go into any Harbour next them to fiph and filt the fith, when the Wind blownt hard they canot reach the Places they belong to, and the Filh may endanger foothong.
In this Cove they hanl up their Roats upon the Shore to fave them, if the Wind be out of the way and over blows, that they may not beat upon the Shore. Here is alfo good
filhing when the Weather leryes. filhing ithen the Weather lorves.
E.N.I: off the Cape, in a triangular Pofition, and at the middle diftance of abour halt a I. he leveral tunken Rocks, as allo fome ereat Rocks above Water E. from the Cap:. The outmont is about 1 : of a Mile, the imermoft not a Mhe from the Shore : There is a cood Channel between them for Boats, and even for Ships with care; bur as it is mothing laved, and the Channel about it is very tare, in needlefs to run any fuch hazard.

There is another Cove on the other fide of the Cape, where Boats ge in when the Wind is off Shore ; but there's no bearmg it with a northerly Wind.

From this Cape to Rell I lk, the Shore trending about mward, whe ditt is $5+$ L.s. the Coutce the Revete of the tormer Coafi, the! and goms away S.W. an' $S$ W. by S. Thin is a pretty larece Illandabout a $L$ from the shore ; and agant it on the Mam lies $\%$ 'ontugal Rus, or Coner, as they call it: "Fisa Place merat we both to catchand cut then fith in the soaSon: It lics due E: of bethe I/he, and tums about 2 Les or 5 Miles ia, and in mott places ssal broad: Su the Shipe which come to fill, he wa litte Cone, wheh whil mide nout iow Shups

## Sailing Direitions for the Ifland of $N$

Shus at a time, and their Boats go out in the Offing to sifl:

North from Ciape St. Framtis lies the Mand Bacalien, or Racalen, that is ro lay, the Salt-fish Cape: The dittance from St. Frances is a La, from Relle I/le about 4 I.s, and from Portugral Cove about \& L.s, the Couric N. by E. It is about 2 Ls long, and halt' a L, broad: 'Tis unimhabited, but the Sea is fill of fillh, and theretore 'us much frequented by the Ship"'s Boats. It is about a L. dathance from the Main, and the Channel between is fair for Shuse of any burden. The Bay of Verds Iledd, or Givert Buy, and rhe S.W. end of Bacaleo, bear E.by N. and W.hy S. one from the other, about $\quad \therefore$ L atunder ; and the diftance fromberds Mead to Cape Francis is $8:$ L.s due $N$ and $S$. and from the Head to the Cove about tof Mile duc W. The Entrance into this Cove is not above a Cable's length wide $N$. and S. The Ships ride in ; Fa. Water, and $y$ et therr Anchors lie in 10 Fa. the Ships vecring out their Cables, that they may ride as near their Stages as they can, for the Convenience of Curing and Loading their Fith : And by this means they do not ride above halt a Cable's length trom the Stuges.

It is a Place of great Bufinefs and good Filhing, or elfe no Ships would lie there ; for 'ths a very bad Road, and hazardous for Ships ridug, and they are fain to teve their Cables one to another, to prevent ther Shecring and Yawing when it blows; by whin they would be always in danger of ronning foul of onc another: and fomerimes having fo much Cable an End, they would theer foul of the Rocks under the Shore: But the Geoducts of the tolling makes them runall Hazards.

Being obliged to take lach a lenget, the Cove will not hold abowe $\frac{7}{7}$ or 8 Ships; but with all the Inconveniences above, and their getting ncither Wood nor Water, they are yet fo cuser to gom, and thase to much to be betore one another, that they are teady to yuarrel tor a Birthin the Cove, becaule of the erout plenty of tilh.

The ships rade here open to the great Bay of Comfimption, fomm wheme a S.W. blowing off the Bay brings in a great S(3).

Ihe Biy of I'ilds thad is known by another Head callid Siple Mnnt, lyms withan tice Itand Residelo, and hooting out 10wards she si at Bay toutherly. Allo about Musket-thot lom the Head hes biture (ore, mother very good filhingphace, and full of Stages and Bonts; 'tis about half a L from Tinds Mend, the Courte ENF.

Irom lieds llead to l hembrough Head is about 2 L S.W. Wy W' 'is a ttecp Whack Pom, rocky without thelter, except jull when the W'mbakes a Weather-fhore; neither is there any place of Shelter tarther on an tar as Carbounco, which is at leat iol.s dillant, the Comme S.W. and S.W. by S.

There are mated two hute thallow Coves between, fit only for Beats ; one hics $S W$. calld Givern Coze, dalance from Cide lhed biy + , Is a very poor Place for Shelter, tho tull ot Fith : The other is Cimmoun Bidy, which lies N. of Car. bian a. The dillances ane wation here; Cerbonera hes diftant from hamk hlahborwen + and 5 Ls, from Salmon Cozit

Harbour, an this Ledge, Watcr fide,
N. R. Th a Mile.
Kecp onth $3 \because$ Fa. over are over, ; tc not above 7 two white R1 Mark you m. Bar is clean above = Ls w

This Harb out ir, call'd northward o dangerous.

Half a L S good for fillii is good, the it is not well Spani/b, Bay 3 Ls, the $\dot{C}$ Harbour or S Sea or the La no Filh in the the fame, an parts them ; diftant $=\mathrm{Mi}$ The ewo Poin other $2 \div \mathrm{Mi}$ which fide ye up, and no Arms, which W.N.W. the lie there with Winds.

About 30 Courfe W.S.S vary bold to lying on the Ship in the while your A Cable and a feen ocfore ar come near el

From sho S.S.W. It is two at atim only the one other. The as far as to $/$ a Latimder S.S.W. 3 I.s But in $\mathrm{H}_{\mathrm{c}}$
fe no rdous ne to lows; oul of End, at the

Harbour, and is therefore calld a Bar. When you are near this Ledge, you will lce two white Rocks in the lionk on the Water fide, about a Mile E. below the Beachy Point.
N. R. The Beachy Point reaches for the diftance of hatf a Mile.
Kecp on the N. fice next the Beach, and you will have 3 to $3 \therefore$ Fa. over this Ledge or lhar of Rocks; and as tion as you are over, ; to 7 Fa . But on the S. end of this Bar, you have not above 7 to g Foot Water. The Bar trends S.W. from the two white Rocks quite over, clote to the S. Shore, and by that Mark you may know exactly where is lies. All beyond the Bar is clean from fide to fide, and has trom 7 to 10 Fa. for above $=\mathrm{Ls}$ within the Beach.

This Harbour lies m W S.W. The re are fome Iflands without it, call'd Harbour Cirati Illaths; the Entrance is to the northward of thofe Illands: The other fide is foul and dangcrous.

Half a L S W. from Marbour Crace is Brwot's Coge ; 'tis good for fithing with Boats, but no Ships ute it: The going in is good, the Ciround clean, and the Water decpenough; but it is not well theltord thom Winds off sad. From hence to Spanifh Bay the ditance is 2 Las, from Marberer (irace 3 L.s, the Courte S.W. and S.S.W. Spamith hay is a mere Habour or Shelter for Shaps in bad Weather, for neither the Sea or the Land yelds any Comfort or Advantuge: There are no Fith in the fint, or Inhabitants on the haft Rey Robert is the fame, and they are to near, that only a tmall Nieck of Land parts them ; yet iy Sea, being romd the Point, they are diftant = Miles, S.by E. foutholly, and N.by W. northeriy. The two Point sat the Entance lic N W. and S.E. with one another $2 \div$ Miles afunder ; youmay curn fair in, and borrow of which fide you wial. The Bay lies in E. and W. near 10 Miles up, and no danger but what you fee: It runs up with two Arms, which part about a L within the Point: One gocs up W.N.W. the orher S.W. the firlt has the deepen Water; yout lie there withn the Illand in y to ro ta. land-lock'd from all Winds.

About 3 or + Miks from Rey Robert hics Fort Grato, the Couric W.S.W. abome the Pome This Bay is alto decp, and vary bold con on cerery fide. There is shares Cove between, lying on the Starbard fide as youse ia; you may moor your Ship in the Cove Head and Sern, ndng in + to 5 Fa Wher, while your Anchors lic off in $2=$ Fa. S.W. trom yon, abour a Cable and a quarter lengh trom your Shp: The Reatha is feen oefore at Bay Vabd, ebz. Vecring out your Cables to come near the Stages.
 S.S.W. It is a fimall llace, but there is good ridme for a ship or two at a time: They are both within the Bay of Pow (iowte, only the one is on one fide of the Harbour. and one on the other. The Cove bears S.W. in ; bur the S. fide of the Bay, as far as to Burat Head, lics N.L. by E. and S.W, by W. about a L atinder. The Had of the Bay of Tout Cinae lics up S.S.W. ${ }^{2}$ l.s within the Comutry.

Bum int Headand Port Gavelie S.E. by E. and N.W. byW.

The Buy of lords Had is known by another Head call＇d S＇lut Inint，lyang within the Illand Facalon，and fhooting out rowards the great Bay toutherly．Allo about Musket－1hot from the Head lis Black Cove，another very good Filhing－ place，and full of Stages and Boats；＇ris about halt a $L$ from Lirds llad，the Courle E N．F．

Irom I irds diad to l lambromet Micad is about $2 \mathbf{L}$ S．W． by W＇tis a Itecp back Pomt，rocky without thelter，except jutl when the W＇md makes a Weather－dhore；neither is there ainj place of Shelecr tarther on astar as Carboner＇a，which is at leat io Ls dithant，the Conte S．W．and S．W．by S．

There are maded two hete thallow Coves between，fit only for Boats ；one lics $S W$ ．calld Given Cow，dillance from $\mathcal{B}$ inds lhed Buy＋I．s．a very poor Place for Shelter，tho sull of Fith：The other is Cammon Bory，which lies．N．of Car－
 from biack lhat between + and 5 Ls，from Siamon Coze －IS，and from Given Bia $1 \circ I$ ．s：The Courle from all thole Places to Carbmonis S．W．andS W．by S．

Given liny is a I over beween the Heads，there is good Salmon fillume in it，as allo in Salmon Coze；the difance foom G uboner a is y Miles．The S．end of Cirbonera is low，and lanafort，with a buttery of 20 Gims upon it，made by the SHechants Shus in tanc of the late War with Framee．The Hablour of（cimbonira is bold，and to is the Illand；but there are Rocks mader Water，between the lland and the Main． Thise is a very good Harbour for the Ships；and tor taking ：ucat Qumuties of fith alto：The Entrance is a Milc broad， to that you have far turnind erther in or out．You have very
 ：armRacr．

In the northwad of enimma are two Coves，where the
 and（rober＇s ene；but they are not capable of recciving hase Shaps．The lhabour ot C．arbacralies in W．S W．dift． nom／lion an（irace sbout ；Whes；they licS．S．E．and N．N．W． ainne a Mile honal．

Ilaboial（i）as：is a deep Entrmec，it lies in from the Openme W S W ，alto，and ramis be Cometry about 8 to 10 N⿰亻⿱丶⿻工二十⿴⿱冂一⿰丨丨丁口灬：Finumy turn into the Bay all over it，from fide to side，mathe lohe you may dome ciabonera．There is a Rock， or faree of Rock：，w the Madtle of the Channel，call＇d the 1，16．＂＇s ：but jou go oa any fide，for it is bold too：But there bs another Rock ealli！Lows llay v．Without the other en the N．Shore，where thes pats on one fide．aza．between it antab Vam only with Boats，becoute it is marrow，tho decp cuonsh for Shaps．Both thete Rocks are very hish above Wa－ ter，fo that they are calily leen，and therefore not dangerous at atl．Theshaps rede withan a hush Beach very lecure，and youkcep to the $N$ Shore，becwate of a Bur or Ladec of Rocks wheh mouts ores to the S．fide from the N．yumetheare the

Winds．
About 3 or Courfe W．S．W vary bold too lying on the $S$ Ship in the Co while your An Cable and a y fecn before at come near the

From shecp． S．S．W．It is a two at a time only the one i： other．The as far as to $B 3$ a $L$ aliunder． S．S．W．$y^{\text {I S S W }}$ Bu）ut Hea 3 miles from o Trecs which but the S．Poin Coves are uni Onc L farth Brigus，a high The Road goe you anchor ot and Plantation the great Bay fow except lim

From Brig as beforc，an mon Pool $2 \frac{1}{2}$ Foot Watcr w it is in：So ming．About is a Plantation as before，＇tis From Iharb from Burut 1 The Courfe fr which bore in S．W．trends a good Harbou in the Road， The Coalt buay，and the

Fromb iod
Iroms Split
From the ！ Ifland ricucile Ricakerant rent Comti，

Winds.
About 3 or 4 Miles from Bay Robert lics Fort Cirate, the Courfe W.S.W. about the l'oint This biay is alfo decp, and very bold tow on every fide. There is Sheres Coze becween, lying on the Starboard fide as you in in; you may moor your Ship in the Cove Headand Secrn, riding in + to 5 Fa Water, while your Anchors lic off in 22 Fa. S.W. from you, about a Cable and a quarter length from your Ship: The Realon is feen before at Bay Vords, uhz. Vecring out your Cables to come near the Stages.

From shecps Cove it is a Miles to Cupial's Core, the Courfe S.S.W. It is a fimall l'lace, but there is good riding for a Ship or two at a time : They are both within the Bay of Plort Girave, only the one is on one fide of the Harbour. and one on the other. The Cove bears S.W. in ; but the S. fide of the Bay, as far as to Burnt Head. lics N.E. by E. and S.W, by W. abour a L atunder. The Head of the Bay of $\mathrm{I}^{\prime}$ ut Grave lics up S.S.W. 3 I.s within the Comitry.

Bumt Head and Port Gravi' lic S.E. by E. and N.W. byW. 3 miles from one another: 'Tis call'd Berrat Head, liccaute the Trees which were upon it are burne down; and it is no more but the S. Point of the Bay of the Port Grave. Moft of thele Coves are uninhabited.

Onc $L$ farther on the fame Courfe S. by W. lies the Point of Brigus, a high ragged Cape. Brisus is a tiarrow Bay, but deep : The Road goes in S.W. by W. and W.S.W. abour half a L., where you anchor on the N. fide. Here you have fome luhabitants and Plantations, but not many : It lies quite in the Botrom of the great Bay of Confimption; and bei a to far in, there are fow except fimall Ships go to tar up.

From Brigus to Colleers Bay is near a L, the Courfe S.S.W. as before, an uninhabited fortaken place; and thence to Salmon Pool $2 \div$ Males more, likewile delolate. Here is but two Foot Water when the Tide is out, and but a foot more when it is in: So that it is really of no ule, and ficarce worth maming. About 2 Miles from thence lics Hab bour Main; there is a Plantation on Shore, and good filhing in the Olfing; but, as before, 'tis out of the way, and shaps ichom go in to tar.

From Harbour Main the next Place is Haly Road; the dutl. from Burut Head is ; Ls, and from I larbuar Main 2 Nhles: The Courle from the latt is SE by S From hence the Lated, which bore in betone to the Bottom of the $B$ Bas of Confantition S.W. tronds away now cafterly towards bitli If/t. This is a good Harbour, tho but little Butinets: 'I here is a la Water in the Road, and clan Gromed, but 'tis too fise ia.

The Coalt now returns on the other fide of Co, Bay, and the Phaces and Dithances are as follow

From Split 'Pone to the Point ot the Gime's a Ls, N'N. N.
From the Point of the (iratisto the N. or N.W end at the

 rent Comfe, fint W. by N. then W. by $S$ then W's.W. nid inil


## IMAGE EVALUATION TEST TARGET (MT-3)



Photographic Sciences Corporation


Laft IV bys. Off the Land from the Point lics a Ledge of Rocks, but they are above Water.

Two Ls from Brak-beart Puint lics Sherwick, boing the N. Point of Odd Pelican or l'erlican Bay, the Courfe S.W. by S. 'To the fouthward of Brake-hcart Point lics Scurvy I/hand, a littic from the Shore; between which and Sherwick Point runs in S. by E. a deep Bay about 3 quarters of a Milc, but it is not of muchure, nor dol find any Name it is knownby. Sherwick Point is bold too: There is an Inland off of the Point. There is no Channel between the Illand and the Point, tho the Channel feems fair enough, but the Giround is foul, and a Shoal lies from it to the Land; but on the S. fide of the mand the Channel is good, and bein.! in youmay anchor in + to 5 Fa .
N. B. The Place is not without Dangers when you are in;
for there is a Rock cven with the Water, and fome Rocks quite under Water about the middle of the Bay.
Oid Porlican is a wild Road, with the Wind at W.N.W. the Ground allo is to rocky, that you mult buoy your Cables: the Boatsgo up agreat way to filh, and there are fome Ininabitants on thore, but not many.

Seven Ls from Old Perlican lies Sillee Cowe, the Courfe is W.S.W. 'tis but a very forry Road for good Ships, nor is it much frequeuted. From hence to New Perlican the Courle is W.S.W. dift. from Sillec Coze i L, and from Old Perlican £ Ls. Ncw Perlican is a very noted Harbour, and you may ride in it Land-lock'd from allWinds, and with 5 to 10 Fa.Water.

It is bold and large going in, to that if you can fee to fet your Courfe before yougo in, you need not value what time you go in, whether Night or Day. The Entrance into the Harbour is bold and free at any time of the Wind or the Day; 'tis almolt $=$ miles wide, and has about 20 Fa . Water in the firtt Opening; but as it goes in, 'tis narrower and the Water fhoaler. As you lie in firft W.S W. and afterward run up to the Norhward in a Bight, you are abundantly fatisfyd for the Trouble; for there you lie Land-lock'd from all Winds: The breatith allo is fufficient. for'tis half a Milc broad in the Road, fo that you may turn in or out, and anchor where and in what depth you pleale, from + to 12 or 14 Fa. and vary good Ground.

From New Perlican'tis 5 Ls over to Randam Head; they lic N.W. and S.E. one from the other. This Randam is a Bay with a River, and in it are Ceveral Crecks and little Harbours, which they call Coves. Randan and Smith Sound are both one, or come into one; yet they go in two ways, and 'tis 9 or 10 Ls in before they join: There is a little mand at the Head, where they meet, where is 4 to 5 Fa . but at the Paffage thro' there is not above 2 Fa. and tomething lefs than a mile broad Simith's Sound runs in W.S.W.

From this Coaft likewile gocs another deep Inlet call'd Trinity Harbour, which reaches in 15 Ls from Bonarenture Port to Tickle Harbour.

There is another Bay alfo farther N. call'd Bay Bulls, which runs in to far W. that it is not above the diftauce of 2 miles over Land from thence to $P$ lacentia Bay, the great Inlet on the other or S.W. fide of the Inand; fome of the Illands in

Places, an Coves is a I/land ; 't this runs ride often.

Trinity it is full Thoutand from cver fide, and

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chege of Places, and clean Ground for Ships to ride in. Without thefe Coves is a Headland which teems like an Illand called I ux's
cing the S.W. by
y Ifand, P Point lilc, but olinby. fr of the he Point, foul, and he liland + to 5 ra. u are in ; ac Rocks
N.W. the bles: the nabitants

Courlc is nor is it he Courle Perlican you may fa. Water. lee to fet time you e Harbour Day; 'tis irlt Open. r thoaler. the Norhhe Trouds: The he Road, d in what cry good
ad ; they $m$ is a Bay Harbours, are both and 'ris 9 and at the he Paffage ian a mile
call'd $\operatorname{Tri}$ -
ture Port
lls, which of 2 miles lulet on Illands in Ifland; 'tis join'd to the Main by a Ridge of Beach. Within this runs in a Bay called Robint Hood's Bay, where finall Ships ride often, and fifh to good Advantage.
Trinity Harbour is the 'elt and largeft in all Neu foundland; it is full of Creeks and Cores, Inlers and Openings, where Thoulands of Ships might lie lecurely, all entirely Land-lock'd from every Wind, not one loint open; it is bold too on every fide, and you may furn in and out as you will.

There is but one Shoal or Bank that has any Difficulty upon it, 'tis as you go in S.W. to the Arm, where the filhugg Admiral Stage lies: 'This Shoal is call'd the Mly/cle Bank; you muft thun this upon entring the bay ; but 'tis very caly to do, for it thoos over from the Point behind the little llland on your Larboard fide going in, and reaclaes over N.W. only about a third of the Arm: io that being within the Bank, you may edge over clofe to the S. Shore, and give the N. fide a large Birth: and thas you will go clear of it all.

It would be too tedious to deferibe all the Coves and Roads in this excellent Harbour: In the S.W. Arm there is Harbour within Harbour, and Cove within Cove, like C'lo'fapcak Bay in V'ursinia; and as for the N.W. Arm, it is able to hold 500 Sail of Ships in the open Road of it, befides the Coves, EC. on every fide of it : beyond that, is a large Cove or Arm call'd Crod Almighty's Coze, where there is room for 3 or 400 Ships more, in clean Ground, and good Shelter, fo that nothing can hurt them. There are leveral other places where Ships ride with all poffible Sceurity, in moft of which you have from 4 to 14 Fa. within 2 or 3 Boats length of the Shore. The Tide riles in this Harbour not above 4 Foot, fo that the Strean is always gentle and fafe.

From the Hor/ebops, the N. Point of T, inity Harbour; to the S. Point of Catalina Bay, the Ditt. is s L.s, and the Courlo N by E. and N.E. There are tome Coves between, as Gireer Bay, Ragged Harbour, and lich like tmall places; this latt is a part of Catalana Bay.

There is Cataluna Buy and Catalima Marbour : the S: and N. Heads of the Bay are 3 Ls afur:der N.N.E.. and S.S.W. and between thole are Ragged Harbour and Cittalina Marbour.
'Tis called Ragged Harbour, from the many craggy Rocks which lie abour the Entrance into it, both within and without: Ou the S. fide you cannot go in with Ships, nor on the N. fide without being well acquainted, and very careful too, for 'tis throng'd with Rocks and Dangers on every fide.

If you'll venture in, you mult go fo far to the northward of all thofe Rocks and lllands, as till you open the Harbour it telf before you; then you may run in between the round Inland which lies clote to the Main, and a great black Rock off the N. end of all the Ragged Iflands, and fail in there till you come to the middle of them, which will be ro feaward from you: then come to an Anchor.
> N. B. There is good frefh Water at the Head of the Harbour, but no Pcople.
> N. from this Harbour lics Catalima Harboar, dift from the
to that younnily turn in or our, and anchor where and in what depoth you pleale, from + to 12 or $1+$ Fa. and very good Gromed.

From New Perlican'tis 5 Ls over to Randam Head; they lic N.W', and S.E. one from the other. 'This Randam is a Bay with a River, and in it are feveral Crecks and little Harbours, which they call Cozes. Randum and Smit/) Sonnd are both onc, or come into one; yct they go in two ways, and 'tis 9 or iols in before they join: There is a little Ifland at the Head, where they meet, where is 4 to 5 Fa. but at the Palfage thro there is not above ${ }_{2} \mathrm{Fa}$. and fomething lefs than a mile broad Simith's Sourd runs in W.S.W.

From this Coaft likewife goes another deep Inlet call'd Trinity Flarbour, which reaches in 15 Ls from Bonaventure Port to 'Tickí Harbour.

There is another Bay alfo farther N. call'd Bay Bull;, which mons in to far W. that it is not above the diftance of ${ }_{2}$ miles over Land from thence to Pincontia Bay, the great Inlet on the other or S.W. fide of the Inand; fome of the Illands in which bay are 9 to 10 Ls long cach, and 5 to 6 miles broad: they lic N.W. and S.E.

Boincenture Port is diftant from Bonacenture Head two miles or more N.W. and S.E. being at a mile's diftance from the Head in your Courfe, then you open the Port or Harbour, which goes in N.W. by N. about a mule to the Admiral's Stage.

The Port lics behind two fimall Iflands, and the Paffage gocs in between them ; but you maygo on either fide, and between them and the Main, elpecially with a large Wind to lead it thro'. You have 4 to 5 Fa in the Pafage, and no Dangers but what are apparent. When you are in, you have the lame Depth in the Road, and very good anchoring Ground: you have alfo a fecure Hole for Boats to run into in bad Weather. Behind a Point to the N. of the Admiral's Stage, tis as tmooth as a Pond. As you go in, youlcave the Planter's Houte on your Larboard fide. Above 100 large Boats may lic in it at a time, and all in the umott Satecy.

On the W. fide of this Harbour is Gull I/land; they ufed formerly to finh there, but of late they do not, or but little. From the lland the Harbour goes near a mile farther up North. There are feveral Inlands allo which lic in the Offing, $W$. from the Head; one is call'd Gireen I/land. dift. from the Port two Ls, the Courle S.S.W. You may fee this Mland in clear Weather as foon as you come out of Trinity Harbonr. There is allo another namelefs Ifland without, the dift. from the Port is 4 to 5 miles, in the lame Courfe, or S.W. by S.

From Bonazenture Head to the N. Point of Trinity Harbour is 3 Ls and a half, the Courfe E.N.E. but to the Harbour of Trinity it felf it is but $2 \mathrm{~L} s$, and they lic N E. by N. and S.E. by S. There are feveral Coves and tima!! Bays between, but not worth notice.

Between the Hor feloope and Trinity Harbour are two fithing Places, where Ships wed to come; one is Engligh Harlour., and the other is Silmon Cowe: they lie W.NW. and N.W. the dift. between them is not above $\frac{2}{2}$ L. they are both good fithing

Ind in what very good lead; they lam is a Bay : Harbours, d arc both and 'tis, fland at the the Palfage han a mile
call'd Tri. nture Port
ulls, which of 2 miles Inlet on c Illands in ilcs broad :

Hcad two c from the r Harbour, ral's Stage. affage gocs ad betwecu to lead it o Dangers e the tame sund: you d Weather. $s$ as imooth Houle on ic in it at a
they ufed r but little. r up North. g , W. from c Port two ar Weather here is alfo Port is 4 to
rinity $H a r$ he Harbour N. and S.E. tween, but
two filhing 3 Harlour, d N.W. the ,ood filhing
is a part of Catalua Rav.
There is Ciataluad Buy and Cataina Marbour: the S: and N. Heads of the Bay are ; Ls alunder N.N.E. and S.S.W. and between thole are Rasied Harbour and Catalina Marbour.
'Tis called Raggeit Harbowr, from the many craggy Rocks which lic about the Entrance into it, both within and without: On the S. fide you cannot go in with Ships, nor on the N. fide without being well acquanted, and very carcfin too, for 'tis throng'd with Rocks and Dangers on every fide.

If you'll venture in, you mult go to far to the northward of all thofe Rocks and Illands, as till you open the Harbour it felf before you; then youmay rminbetween the round Inand which lies clofe to the Main, and a great black Rock off the N. end of all the Ragged $I^{\prime \prime}$ mds, and fail in there till you come to the middle of them, which will be to feaward from you: then come to an Anchor.
$N . B$. There is good freth Water at the Head of the Harbour, but no Pcople.
N. from this Harbour lies Catalima Harbour, dift from the S. Pome of Catalina Bay 2 LS , and from Ragg d Harbour 2 Miles: This is allo a good late Harbour, from $;$ to 8 Fa. gradual Soundangs. There is a little Ifland to the S. of the Harbour ; but if the Wind be large, you may lead it thro'; and have 4 to 5 Fa . in the Paffage, tho the Channel is not above a Cable's length broad.

If you go withour the Inand, you mult go to the caftward giving it a fmall Birth, and fo kecp the F'air IV ay Mid-Channel into the Place, holding it fo for a Mile. From the S. Point of the Harbour E.N.E. lies a Shoal, but you may go on any fide of it, and know it by the breaking of the Sea upon it.
N.N.E. of this Harbour lies Little Catalima: all the way to it you have from 7 to 10 Fa. and then lies the N. Head of the whole Bay N.E. calterly from Catalina Harbour. The diftance of Little' Catalina is from the Harbour halt a L. and the dift. of the N Head of the Bay is half a League.

From the laid Nortl/ Head of Catalina Bad, the saext Place of Note is H 10 eiers Pount, the dilt. from the Head is $\mathrm{t} \perp \mathrm{L}$. and without the Point, 5 Miles off to Sca, are Flower's Rocks, a very dangerows place; they lie lunk under Water, and are only known by the Soa breaking upon them, which in ftormy" Weather it docs with great Violence : chey are but about halt a L off Shore, tho 5 milestrom the Point. There is a fieir Channel betweenflower's Point and the funk Rocks, any ship may go thro': The Mark to go without them .s to keep Cape Larjan, as our Sailors call it, or Cape Larsent, open of Bird Ifland : and that carrics you clear to the caltward of them.
N. B. Some will have it that thole Rocks lie 2 to; Ls off ${ }^{-}$ Shoar, but Experience has difcover'd the contrary.
Three miles and a half from Flower's Point lics the aforcfaid Bird Ifland, the Courfe is N. by W. On the W. Bide of the Illand is a large Bay, and there is allo a Creck or Arm of a River within rhe S. Point of the Man, which runs into the Bay from the W.S.W. a good dift. in the Country : and here Ships ride upon any foul Weather weh great satery. There is another

## Sailing Directions for the I/ll

another Creck alfo belhind fome Rocks, which lic above Water within the Bay. The dift. of the Bird Iflands from Cape Lar$j_{2}$ in is betwecn 2 and 3 Miles N . fterly; and from Flowers Point to the Cape 6 Miles : the firt lies N. half E. the fecond N . half W. Juft off of the Cape lics a great Rock above Water.
N.N.W. from the Cape gocs in a finall but decp Bay, where fome Veffels go in to filh, and beyond it in the fame Couric ' es Spillcr's Point, a high ftecp Point, bold too, and feen a gi at way: The dift. from Cape Larjan is onc fimall L. A L. ..ither in the fame Courfe is Cape Bonavifla. Between thele 2 Capes runs in a large decp Bay, which Strangers are apt to miftake for the Bay of Bonlaviffa; it is not above $=$ Milcs and a half over Land from the bottom of the Bay to the Port of Bonovi/th, but 'tis more than 2 Ls by Sca, being about a narrow Neck of Land, befides about a Musker-fhot over Red Head Bay.

Cape Bonavif!! is a bluft bold Head: about three quarters of a Milc from it N . by W. lies Gull Ifland, or the Ifland of Gulls, it is a high Rock, and higheft in the middle, like a broad brim'd Hat, and makes at Sca like a Flower-de-Luce; 'tis feen 5 or 6 Ls off in clear Weather. N.E. from this Illand lies a Ledge or Riff under Water, where the Boats ordinarily filh : there is io Fa. Water on it ; fo it is not mention'd to warn the Sailors of any Danger, but to guide them to their Bufinefs.

Cape Bonavifla or Port Boncuifia are dificrent places, and lic S.W. and N.E. 5 Miles from one another, rather more : if you are bound to the Port, your Courfe is from Gull Ifland, and the Cape, leaving the Ifland on the W. fide towards the Main, the Channel between being both narrow and foul: But betwecn Green Ifland and Stone Ifland you may go without Danger with a Ship of any Burden, the Channel being fafe, and the Shore bold; or you may go without Stone Ifland to the Weitward, and fo run out S.W. till you open the Harbour of Bonarifla fair in view, and till you are paft a Head of Land called Miofes's Point : then you are to the fouthward of the Rocks called the Sweerrs, where your may ride in 5 to 11 Fa. but you cannot go to the northward of them.

If you ride under the Seiecrs, you mult always lic clofe a. board them, with one Anchor out to Sca S.W. trom you, and one Head-faft athore upon the Rocks; or clfe come to an an chor on the N W. fide, for the wefterly Winds blow right in upon the Road.
N.B. The Flood ruas generally to the northward here, and upon all this part of the Coalt, efpecially farther to the northward.
About Bonavifta and the Coaft adjacent, a W.N.W. Moon makes full Sca, and the highent Tides.

Cape Bonaviftalics in Lat. 49 d . 10 m . N.
Here is good filhing upon all this part of the Coaft; and in Red Head Bay and the Harbour of Bonazifta there are Stages and good fifhing, but no farther N . at leaft our Ships go no farther N .

Here it is needful to bring in, as in its moft proper place, the Sitnation, Depths, Latitudes, Eֻic. of thofe famous Sands called the Ranks of Ne $\begin{aligned} & \text { foundland, which fome imagine are }\end{aligned}$ Shoali and isindechthex are, compar'd with the Bottomefs

## ions for the I/land of Newfoundland.

above Water om Capc Larfrom Flowers E. the fecond above Water. p Bay, where me Courli cs Id feen ag; ut L. A L. ... tween thele 2 are apt to mil$=$ Milcs and a ac Port of Bobout a narrow Red Head Bay. rec quarters of fland of Gulls, , like a broad Luce ; 'tis feen is Illand lies a ordinarily filh : a'd to warn the ir Bufincts. ent places, and ather more : if m Gull Jfland, de towards the and foul: But ay go without bcing fafe, and - Illand to the he Harbour of Head of Land thward of the in 5 to 11 Fa .
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ward here, and farther to the
W.N.W. Moon

Coaft; and in here are Stages Ships go no far-
ft proper place, fe famous Sands me imagine are the Bottomlets
yuently, we proced to give an Account of it ; Lut as we have had no Survey taken fince of the whole Mland, or of the Fresich part which the Engh/h did not poffels, tis fufficient to account for our own known Ports, and leave the relt to a more exact Survey.

Off of Cape Race, dift. near zo Ls S.E. lics a number of dangerous Rocks called the Vimgins; they are above Water indecd, but not very hi,h; fome are flat with the Waters Edge, and which is ftill worle, lome are quite under Water: Then Lat. is about 46 d .30 m . Some Pilots of good Judgment differ as well in their Lat. as in their Situation with refpect to the Land: For example, fome infift they are but in Lat. 46 d . and fay they have taken an exact Oblervation of it ; and that they are fituate at the dift. of $I_{7}$ to is Ls S.E. by E. from Cape Ballard.

In this Uncertainty we can only lay down the differing Opinions, and leave it to every Man's Judgment to direct them.

From Cape Race, to follow the Coaft to the $W$. the firf place we mect with is Miftaker P'Pint, called to, becaufe when Sailors firt make the Ifland of Newfoundland from the fouthward, this Point is often miftaken for Cape Race: it is dift, from the truc C'ape Rac' about a Ls, the Courle to it is W.N.W.

Five Ls from this Point in the tame Courle is the Entrance into the Harbour of Tirpaffi; the caltward Point is called Powles: there is a deep Bay on the back of the Point caftward called Powles, and a high Ridge of Beach between that and the Road; fo that in the Offing you fee the Mafts of the Ships over the top of the Beach as they ride in the Road. It is good Riding when you are in, but'tis a very dangerous Place to be imbay'd in; for the Sea comes in fometimes Mountains high as the Winds may be, and no Current to help you out.

But if you are bound in for Trepaffi, ftand over W. towards Capespine, till you fee the Harbour fair open; and then run right in N. by E. according as you have the Wind Cape Puic is a bold Shore, and late : you may keep along by it at pleafure : The Harbour of Trepa!fi is very large, has fair Shoalings from 8 to 5 Fa. upon your going in; and when you turn in or out, you may fland with either Shore into $3 \frac{1}{2}$ to 3 Fa. without Danger: 'tis allo very well fecur'd, and good Ground to anchor in.

Leaving rhefe Ports, which lie N.W. from Cape Race to the N . in your Courfe, if you are bound weftward, ftand directly over to Cape Pine' ; the Courle is W.' N. tho by Compals you muft fteer W. by N. becaute of the Variation W. The dift. between ihe Capes is near $\%$ Ls.
$N . B$. The Variation here is between 22 and 23 d . wefterly and holds fo all along this Coaft.
The Bays and Harbours above-named, which lic in northerly between thote Capes, are few of them, except that of ${ }^{-}$ Trepaffi, fit for great Ships; the Shore allo is foul, full of finken Rocks, and very dangerous: Befides, the Seas are very tempeftuous on this Coaft, by reafon of the conftant foutherly Winds, which almoft blow Trade on the Coalt ald the filhing Seafon; fo that the Scas come tumbling in upou them fo forcibly, that there is no riding but in places very well lecur'd:

If you mde mader the Swarbs, you mutt always lie clofe a. boand them, withone Anchor out to Sca S.W. from you, and one He.ddaft alhore upon the Rocks; or clfe come to an an chor on the $\mathrm{N} . \mathrm{W}$. fide, for the wefterly Winds blow right in upon the Road.

N'. $B$. The Flood runs generally to the northward here, and upon all this part of the Coaft, efpecially farther to the northward.
About Bonavifla and the Coaft adjacent, a W.N.W. Moon makes tull Sca, and the higheft Tides.

Cape Bonaviftelies in Lat. $49 \mathrm{~d} .10 \mathrm{~m} . \mathrm{N}$.
Here is good fithing upon all this part of the Coaft; and in Red Head Bay and the Harbour of Bomazifta there are Stages and good fifhing, but no farther $N$. at leaft our Ships go no farther N .

Here it is necdful to bring in, as in its molt proper place, the Situntion, Depths, Latitudes, E゙c. of thofe famous Sands called the Banks of Newfoundland, which tome imagine are Shoals; and to indecd they are, compar'd with the Botromefs Ocean about them: we find, upon exact Difcovery, that the whal Depth of Water upon thofe Banks is from 80 to 110 Fa . and that to the caltward and northward there is frequently no Bottom at 300 lia.

The Opinion of the beft Judges concerning thefe Banks is thus.
i. The Ieffer Bank, called the Falfe Bank, they fay is narrow; that there is no lefis than so Fa. upon it, and to on to 1 to Fa. and that the dift. of it from the main Bank is 30 Ls. Some by their reckoning make it 120 Ls from Newfoundlin!t, others make it not fo much by 27 Ls: but they all agree in the Depth, and of 80 Fa.being the leaft Depth of Water upon it.

2 . The main Bank they make to be 30 Ls from the Land, and that it is above 33 Ls over, which with 30 Ls between the Banks makes near 100 Ls, which they fay the falfe Bank is from the Shore.
N. $B$. They fay alfo there is a Hole or open deep place in the midt of the main Bank, which is 13 Ls long E. and W. and about as many $N$. and S. and no Ground at 120 Fa . but tome quettion the Fact, and tay they have founded for it, but could not find it, and had fair Bottoms over the whole Bank.
This Deep or Pit in the Bank, they fay is againll Cape Balfild: others fay, that the farther foutherly on the Bank the hioaler the Water, and that the Bank rifes at the end 24 Fa. that this is in the Lat. of Cape Race; and that it is decper more northerly. For thete things every curious Mariner will examine by his own Soundings, and then compare it with the Judgment of others, and govern himfelf as he finds it.

We now come back to Cape Race, which as I faid is the moll S.eaftward Point of Land in the whole Ifland. The S. part of the Inhan, W. or S.W. from this Cape, was poffert by the $l i n g l i f h$ before the late War, as it is ftill, and conle-
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lings from 8 to 5 Fi.t. upon your going in; and when you turn in or out, you may fland with cither Shore into $3:$ to 3 Fa. without Danger: 'tis allo very well fecur'd, and good Ground to anchor in.

Leaving thefe Ports, which lie N.W. from Cape Race to the N . in your Courfe, if you are bound weftward, ftand dircetly over to Cape Pine ; the Courte is W. $\div$ N. tho by Compals you muft fteer W. by N. becaule of the Variation W. The dift. between the Capes is near 8 Ls.
$N . B$. The Variation here is between 22 and $2 ; \mathrm{d}$. wefterly and holds fo all along this Coaft.
The Bays and Harbours above-named, which lie in northerly between thofe Capes, are few of them, except that of Trepaffi, fit for great Ships; the Shore alto is foul, full of funken Rocks, and very dangcrous: Befides, the Scas are very tempeftuous on this Coaft, by reafon of the couftant foutherly Winds, which almoft blow Trade on the Coaft ald the filhing Scaton; to that the Scas come tumbling in upon them fo torcibly, that there is no riding but in places very well fecur'd: On this Account, if you are bound to the W. along this Coaft, you ought to keep a good Offing, and rather go to the fouthward of the Wcit in your Courfic to Cape 'Pine', that you may be fure not to be embay'd here.

But if you happen to be driven to the northward of your Courle, then remember the failing Direction for the Harbour of Trepaffi, and run along the Coalt N. by E. from Cape 'Pine; the Harbour lics in the bottom of the Gulph, about 4 Ls . dift. from the Сapc.

In failing for Trepaffi, take great care that you do not miftake another fmall Inlet for it, call'd Mutton Bay, and lying not above half a L from it, and which, as you come from the caftward, makes like it : therefore, as before directed, 'tis beft: to keep over to this Shore, and fteer to a place called Sailing Cove, which lies about 2 Ls to the N. of Ciape Pine.

In this Courfc, and going forward at the dift. of about half a Mile from the Shore, you will fee the Harbour of Trepaffi fairly open, and have Point Powles, which is the E.S.E. Point of the Entrance, bearing N E. from you.

Off of the Point there are fome Rocks under Water, which you may know by the breaking of the Sea upon them.
N. B. At this Harbour, and in all this Gulph or Bay, an E. and W. Moon makes full Sea, and it ufually flows; Foot on the flack Tides, and 7 on the Spring; bur cven that varics, as the Winds lic either off Shore or off Sea.
From Cape' 'Tine' the Land goes rounding off E. and W. a Point more or lefs, to the opening of the great Bay called St. Mary's Bay.
$N$. B. You muft allow no lefs than two whole Points upon this Coalt for the Variation of the Compats; fo that when we lay the Courle is W. by N. as is is here, you are lipppoled to fteer $=$ Points more to the $N$. or to the $W$. as your Voyage may lie: and to in this Courfe, mftend of W. by N. you ftece N.W. by W.

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The gutrance moth this Bay is very large, and goes in a kugth proportioned to its breadth. The dill between the Capes is at lat is Ls; and the depth from Blackerad (which is hut half a $L$ from (ape Pine) to the Harbour of St. Alary's, on che E . fade near the hot om of the Bay, is $1 ;$ and a half to of Is ; it goes N . in, and has feveral Harbours and Coves with it on cither fade: there are allot teveral good filling Banks or Shoals within the Bay, facially far in ; but they are io much out of the way, and the Fithing is to good in the Offing upon fevers fall Banks to the fouthward and westward, that this part is very little frequented: befides, as the loutherly Winds blow fo long upon this Coat during all the filling Months, 'ti hard ycuturing into foch d. cp Bays, which lie in due N. becate 'fris fo difficult works dow in again, to get out into the open Sea.

SE. from Cape St. Mary, in the Far Way croft the Bay, and at the diff. of about a Mile, there are feveral Rocks in the See, but they are fair above Water; the french call them La Tache ct le Torah, the Cow and the bull: they would not be very dangerous, if it were not that there are several Rocks about them which lie under Water. In the Course therefore to aroid them, keep a good look out; and when you fee the Bull nad Cow', take care of their Horns, that is of the Rocks sou do not fec, being wand by thole you do fec.

There are likewise tome link Rocks in the other Courfe, viz. off of the Point due S. of the Cape; they lie about the diff. of eight Miles; as alto S.W. half W. from the Cape St. Mary, beng in the Courle from Cape St. Mary to the Bay of Ilacotta.

From the weft fade of Cape St. Mary immediately opens the great Bay of Placenta; the oppofite Land is called Cape forIas, diff. from Cape St. Mary $11 \frac{1}{2}$ Ls, the Courfe N.W. by the Compass, but allowing for the Variation of 2 Points, 'xis N.N.W. This Bay merits a full and particular Defeription ; but as our $I$ English Navigation went no farther this way before the lat Ccllion of this Country to England, and hardly fo far, our Accounts are not fo perfect as we expect they will be; to "le omit them, till the new Survey shall be made, and exact Charts drawn with good Authority.

When this Survey, which we hear is now taking by the publick Direction, shall be made, 'is hoped an exact Account will be taken, not of this Bay only, but of all the other parts of the Hand, as well the E. fide which is in the Poffeffion of the Enclith, as of the N. part allow, viz u. the Paffage of Bell Ill, and the S. and E. Coat of the Terra de Labradore up N. to the Entrance into the Straights of Hudfon's Bay, to which we refer for a farther Account of all thole wild and unpracticed Parts, and perhaps alto for the Entrance into the River of Canada, of which the belt Accounts yet given are very imperfect, and the want of which was fatal to the Englifh in the Reign of the late Queen Aube, when not only a well defigned Expedition mifearry'd, but many Ships were loft, by the meer want of l'ilorage, and a true Knowledge of the Coat.

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100 Ls up the Channel. In molt places it is fo decp, that they have no Soundings even at ;00 Fa. To that Ships cannot come to an Auchor, whatever Diftects they are in.

On the N. Shore of this Bay, oppofite to the Illand laft mention'd, there comes in a pretty large River, which coming our of a mountainous Cometry, brings a great Freth of Water with it, tho it be not of a very long Courlc. In the Mouth of this River is a good Harbour, and you may anchor in 22 to 23 Fa . 'tis call'd P'ort de Ours, or the Mazen of Bears, from the great Number of Bears feen there: But this Harbour is too much out of the way.

Likewife towards the N . Pare of the Coaft of the W. fide of Neafoundland, there is another Inlet called the Great Bay; but this allo we have yet no pertect Account of.

On the S. part of the Bay, where the Coalt is Englifh, lics the llland of st. Yoln, oppolite to the N. Coaft of the Country mentiond already, called Acadia or Ne $N^{\prime} \dot{U}$ Scotland. But as this part is yet but thinly inhabited, having been in the Pofferfion of the Eingli/h, but fince the Peace of Verecht, to neither is the Coalt taken into our Cognizance yet, nor are the Advantages of its bordring to far together upon the Gulph enquir'd into, at leaft not fo as perlaps they may be: So we have no Survey of that fide of the Gulph, any more than of the other ; only this we know, that the Coatt belongs to the Englifh, and lies on that fule of the Gulph and River of Canıada for near 120 I.s, including the Windugs of the Shore, which are there very large.

It remains now to give Directions for finding, and failing to the great Filhng Banks of $N_{\text {ewfoundland, which bring to }}$ great a number of Ships together from fuch remore Parts of the World every ycar to filh.

In general we are to take notice, that off of the E. or rather S.E. Coaft of the main Ifland of Niwifoundland, dift. about 30 to 40 Ls , and in fome places much more, there lies a large Bank in the Sca, and ftretching N. and S. a monftrous length: it is called a Bank or Shoal, becauls it is lo, compar'd to the great depth of the Bottomlefs Ocean on all Parts about it ; otherwife 'tis far from Shoal, the ordinary mean depth upon it being 100 Fa . in fome places more, and no where lets than So, as you thall lee prefently.

Without the grear Bank is another not near fo large but which would be a great one if the other were not by; which lies N. and S. I lkewile, as the great Bank does, tho nor above half to long, and not one fitth to broad; and near the tame dift. fro: the great Bank, as the great Bank is from the Land: likewile off of the S. Coaft of the Ifland, there are 4 other Banks, all fuited to the laine profitable Affair of Fifhing.

Some Charts make thete four Banks, lying S. of the Ifland, all join with one another, and then with the Grand Bank, making the linaller Banks ljit out to the weftward, till they fall in with the main Land; by which means they would make the whole Bank be of a valt extent, reaching from the Lat. of to we omit them, till the new Surey llall be madi, and exact Charts drawn withgood duthority.

II hen this survey, which we hear is now taking by the publick Direction, thall be made, 'tis hoped an exact Account will be taken, not of this Bay only, hat of all the other pats of the Mand, as well the E. fide which is in the Poffelfion of the Eus! $/ h$, as ot che N. part allo, viz. the Paffage of Boll l/h, and the S. and F.. Coatt ot the Firra de Labradore up N. to the Entrance into the Streights of Hudfon's Bay, to which we refier for a tareher Accome of all thofe wild and unpractifed Parts, and perhaps allo for the Entrance into the River of Canad,, of Which the beft Accounts yee given are very imperfect, and the want of which was fatal to the Engli/h inthe Reign of the late Queen Ainme, when not only a well defigned Expedition milcarty'd, but many Ships were loft, by the meer want of lidoraye, and a truc knowledge of the Coaft.

All the W. Coaft of Newfondland lies upon the Inland Sea or Guph of St. Lanernec, which is indeed the Mouth of the great River of Camala, tho it be in that place near 200 Ls over fom N. to S. There are on that fide a great many Harhours and Buys, and Inlets of tiec Sea, perfectly adapted to the publick Uie of Mankind in gencral, and for Filhing cficecally.

The Shore ou this fide trends away N. by E. and N.N.E. from cppofite to the N.E. end of the Inand Bhalques to the Point, makmg the Paliage at Be'll I/k, from the Lat. $+^{-}$: o 5 ad. 15 m . ar thereabouts. The lland in other Pares comes down S. to
 the W. fide as above.

On this W. fude there is one very fair Harbour, and which is ftill much frequented by the firench, tho they have not the Poflefion, ezz. St. Gresory's Bay: 'tis harge cnough to receive any Number of Ships, being wall cover'd from loutherly, rortherly, and wetterly Winds; but it is litele ufed by the Suslifh, nether have we any humets worth maming on that fide.

There are feveral lflands alfo in this Gulph, and fome very confiderable, at leant for their Dimenfions, elpecially that of dinticofli, or the sl/fant:ion, poffed by the lirench; but little ufe is made of it in Nusisution, whatever there is in Planting. There are no Anchoring places as we find upon the E. fhes, but on the S. fide there are a large Bays, in which Ships put in tor Shelter in N W. Winds as they pats up the River tur Cimad., and where they are oblig'd fometimes to winter: On the N. Bde of this Mland there are teveral large Inlets and Habours; but as we have no exact Survey, we can give no Account of them to be dependedupon; only they tell us there are no Shoals to fear, the Depth of Water being fo great, clote to the Shore, even makes it dangerous putting in to any of their Roads. In this N. fide, the Channel of the River Cathada is fo wide, that in the Fair Way you cannot fee from the Maltliead to the Shore on cither fide ; and it continucs fo for near
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c Inland Sca c Mouth of near 200 Ls : many Har; adapted to Filhing clipe-
N.N.E. from to the Point, 0 52d. 15 ml . down S. to ut falls off on
and which is have not the nough to rem loutharly, ufed by the ;on that fide. pid fome very ially that of nch; but litc is in Plantupon the E . which Ships the River tor bwinter: On c lulets and can give no y tcll us there fo great, clofe any of their C Cannada is fo om the Mantcs fo for near

It is comed a Batse or Shoal, becounte it is lo, compar'd to the grat depth of the Bottonlets Ocean on all Parts about it ; otherwile tis far from Shoal, the ordmary mean depth upon it being 100 Fa, m thane places more, and no where lets than So, as you that ice pretenty.

Without the preat Buink is another not near fo large but which would be agrest one if the other were not by; which lies N. and S. Hkewite,as the gieat Bank does, tho not above halt to long, and not one fith to broad; and near the tame dift. from the geat Bank, as the great Bank is from the Land: Itkewife off of the S Conth of the Ifland, there are 4 other Banks, all fiuted to the lime profitable Afficir of Fifhing.

Some Churts make thete four Banks, lyiug S. of the Illand, all join with one another, and then with the Grand Bank, making the fimaller banks fipit oue to the wettward, till they fall in with the main Land ; by which means they would make the whole Bunk be of a valt extent, reaching from the Lat. of 49 d. to 3 d. and very near as much in Longit. Bue 'tis cvident there are large Chanals betwen them, and thote Channels carrying a creat depth of Water from tao to 200 Fat or more, and tome of them zo to yo Ls atiuder: fo that we can no more yucftion their being feparate Sands.

In like mamer there are differing Accounts given as well of the Situation as of the Dimenfions of the grand Bank, and of the falle Bank lying without it; which Accomes we thall, as near as we can, bring to a Certainty, that the Navigation of thefe ulfeful Places may not be perplex'd any longer, and the Trade as well as Fillhing interrupted, as has leen the Cade, by Mariners kecping a wrong Reckoning, and thereby fometimes lofing their Veydge, to the great Difappoinemene of their Owners and Micrchants alfo.

One of the moft experienced * Mafters ufing this Trade, fpeaking of the Banks, tells us, after defcribing the Cirand Bank, that the lalfe Bank is but narrow, and has so to 110 Fa. Water on it ; That $t t$ is 30 Ls from the Grand Bank, and the Grand Rank jo from the Main ; and, That the Gramd $^{2}$ Bank is ; Ls over: And this he affures us he meafured with the utmoit Exactnels.

Another auticut Newfoundland Matter $\dagger$ cafts up the whole as above, mamely, the Diftances and Dimenfions of the Chinnels and the Bank; and lays, the Falfi Bunk is 120 Ls dut. duc $\mathbf{E}$. from the lland of Newifoundland, which is 27 Ls more than the other makes it. Heagrees with the other as to the depths of Water, and that 8o Fa. is the fhoaleft on the Falfe Bank.

The fame Attifts alfo difpute the Shoalings upon the Girand Bank; and feveral others differ likewile: Onc fays there are Decps and wide Places, which run into the Grand Bank; particularly one which runs E. and W. 13 L.s, and alinoft as much N. and S. where there are no Soudnens, and no Bottom at $1=0$ Fa. or 200 , fay others: Andanother Pilut lays he foundcd over the whole Bank, and could find no fuch place.

## Sailing Directions for the Burm

The fame Man fays, that the farther foutherly, the flaoaler the Water upon the Grand Bank; that in the Latitude of Cape Race it is thoaler by 24 Fa. thau any where elfe on the whole Bank; and that towards the N. end'tis deeper by 50 Fa. than at the South : All which others fay they know nothing of, tho they have founded it both in and out on and off.

Now as it would be of the greatelt Scrvice to have thefe Banks thorowly firvey'd, and their Extents, Lengths and Breadths, Longitude, Latitude, Depths and Shoalings exactly laid down ; fo till that is done, we think it may be ufeful to give the beft Information we can to all that are bound to the Coaft, that they may not be deceived, as fome experienc'd Mariners have been.

And that it may appear that fuch have been in danger of being deceived, take it in the Words of one who is allow'd to be well acquainted with thofe Seas.
"On the ${ }_{25}$ th of 7 une, 1715 , fays he, at 8 in the Mor" ning, being upon a fair Oblervation in Lat. 48 d .44 m . ha" ving been jult a Month in our Paffage from Plymouth "Sound, and being bound to St. Yobn's Harbour in New"foundland, we brought to, and founded, where we had 92 "Fa. fine white Sand; by which I concluded we were jut " upon the outer Edge of the Great Bank: For after we had " fail'd thence W. 26 d. 30 m . by S. about 18 Miles (that is, " I made my Courfe good fo much S. having 29 d. Variation "W.) we then founded again, and had but 72 Fa. but the " fame white Sand as before. This not only confirm'd our " being upon the Banks, but that we were advanced to about " the Middle of the Great Bank, or at 'eaft that we were up" on the fhoaleft part of it ; becaufe having faild thus about " $3+$ Miles upon the fame Courfe exactly, and then founded " a thisd time, we had deeper Water again, viz. $8_{4}$ Fa. Atill " very fine white Sand, but mixt with pieces of a flaty fort of "Stone.
" This every one knows is the very Mark ufually taken " of gring off from the Bank on the W. fide towards the "Inand; and accordingly after we had run 26 Miles more " upon a W. by S. halfS. Courle as before, we foc. ded a fourth " time, and had 100 Fa. ouzy Ground, with fome of the " fame flaty Stones: Which will be allow'd to be a certain "Token that we were then off of the Bank W. and between "that and the Main, and accordingly we found it fo; for in " running ${ }_{15}$ Ls more we faw Land at about $4^{\frac{1}{2}}$ Ls dift. being " the high Lands about St. Gobnn's Harbour, whither we were " bound."

And here 'tis manifeft there is a great Error in moft of our Charts now in ufe, which lay down this Bank at fo great a diftance from the Shore of Newifonudland as they do ; ficeing by this Obfervation here was no more than 35 L from the outer Edge of the Bank in 9: Fa. when they firft founded, to St. "7omn's. and between 16 and 17 Ls from the outer Edge to the inner Edge of the Bank: So that the Bank is not more than 18 or ${ }_{19}$ Ls from the Main of Newifoundland off of St. Yobn's, whereas 'tis ulually call'd 30 , as we have taid above, from the taid imner Edge of the Bank to the Main.
$N B$. Allo the breadth of the Buak is fallny calculated. it is
and S.W. is furrounc near them Rocks ly cover'd at finall Boa they may flow here

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he Mor4 m . halynouth in $N_{e} w$. $=$ had 92 vere jult $r$ we had (that is, Variation but the rm'd our to about were upus about founded Fa. ftill y fort of y taken ards the les more a fourth c of the a certain between ; for in ift. being we were
of our great a ; fecing from the nded, to Edge to ore than $:$ 'John's, from the

Guide, a true Pilot for the Bank; for as you never mils him there, fo you never find him off of the Bank. They are often feen in Flocks, but ordinarily only two together, and never alone : the Scamen are too well acquainted with them to need any Delcription of them.
N. B. The diftance E. and W. from Cape Spear, a Poinf of Land abour 3 or 4 Miles S.E. by S. from St. Yohn's in Newfonndland, to the Lizard, or Landfend of England, is +3 d . of Longitude, which makes 860 Ls.
$N . B$. Obferve alfo that this Reckoning is made by marking the Log-line at 50 Foot between every Knot, according to Mr. Norwood's Experiments, and thofe of feveral other eminent Artitts, and not according to the old way of marking 42 Foot between cach Knot; which 'tis very plain is crroncous.

## Sailing Directions for the Ifands of Burmudas:

THE Situation of the Inlands of Burinudas, with the feveral Parts of the World from which ordinarily Ships fail thither, is thus:

With the Landfond of Engiand W.S.W. and E.N.E. dift. about 1150 Ls .

With Cape Clear on the Coalt of Ireland E. by N. and W. by S . dift. 1100 Ls.

With Cape St. Vincent W. half S. and E. hali N. ditt. 1100 Ls.
With the W. fude of the Great Bank of $N_{6} \omega$ foundland S.W. and N.E.

With Bofton Harbont in Newn England E S.E. and W.N.W.
With the Capes of Virginia N.W. and S.E. dift. 2 \& 0 Ls.
With the Inland Porto Rico on the E. end of Hifpaniola due N and S .

With the Ifland of Barbadoes N. by W. and S. by E.
With the Gulph of Florida W. by S. and E. by N.
With Albley River in Carolina due E. and W. dift. 280 Ls.
The Burmudas lie in Lat. 32 d. 25 m . Atretching out N.E. and S.W. 15 Ls. All the Shore of the whole Range of 1 llands is furrounded with Rocks, fo that it is very dangerous coming near them in the night or in dark Weather; abundance of thote Rocks lying at a great diftance from the llands, moft of thens cover'd at high and dry at low Water: If you are near them in a finall Boat, as Boats ofen go among them in fair Weather, they may be feen at high Water. N.B. The Tide dues net flow herc above 5 Foor.

At the N.E. Point of the main Ifland there are fo many fmall Iflands and Rocks, and they lic fo ftrangely enclofing th't part of the Ifland, that they form of themlelves the great Bay call'd Southanpton Bay, which is the beft Harbour in the Place.

From the fame N.E. Point there is an Arm of Land fletehing out with a Hook, fo that it almoft meets with another Point of Land, and makes Harringion Sound, an excellent Harbour, and able to receive a Fleet of Ships, having 7108 Fa. and very fecure riding, thelter'd from all Winds; and there is $3^{\text {to }} 4_{4} \mathrm{Fa}$. in the Entrance.

On the S. fide there is likewife another Arm or Hook, which slated, it is fenc'd by leveral Illands reaching ro that part call'd Soaidh
" inland; and accordmgly atter we had run 26 Miles more " upon a W. by S. half S. Courle as before, we founded a fourth " tume, and had 100 Fa. ouzy Ground, with fome of the " fame flaty Stoncs: Which will be ailow'd to be a certain " Token that we were then off of the Bank W. and berween " thar and the Main, and accordingly we found it fo; for in " running 15 Ls more we faw Land at about $4 \frac{1}{2}$ Ls dift. being " the high Lands about St. Yobn's Harbour, whither we were " bound."

And here 'tis manifeft there is a great Error in moft of our Charts now in ufe, which lay down this Bank at fo great a diftance from the Shore of Newifonndland as they do; fecing by this Obfervation here was no more than 35 L from the outer Edge of the Bank in 92 Fa. when they firt founded, to St. \%olnn's. and between 16 and ${ }_{17}$ Ls from the outer Edge to the inner Elyge of the Bank: So that the Bank is not more than 18 or 19 Ls trom the Main of Newifoundland off of St. Fobn's, whercas 'tis ulually call'd $3^{\circ}$, as we have faid above, from the faid mner Edge of the Bank to the Main.
N.B. Alfo the breadth of the Bank is. fallly calculated, it being, cvident that its breadth betwecn Lat. $4^{8}$ d. 20 m . and 44 m . is not above is Ls at meft, between which is all very dece Water : For after you are off of the Bank, you come into 100 to 120 Fa. and tho you have fome Shoalings as you come towards the Land, yet you have 50 to 60 Fa. to the very Rock's Note.
We have likewife fome Charts which make the diflance more than 40 Ls from the iuncr Edge of the Bank to St. \%oonn's, Which is about is Ls out of the way; and it mult be fuppos'd the Pilots from whofe Reckonings thefe Charts were drawn, kept a very bad Account, or were very fuperficial in their Obfervations: 'Tis certain that to great an Error in fo fimall a diftance may be vety dangerous to fuch as may depend upon thofe Charts; nothing being more frequent upon the Coaft, thin to hear the Sea breaking upoa the Shore and Rocks before one can lee the Land, the Country being conftantly covered with a Fog from the beginning of May to $f u l y$, and fometimes for the molt part of Auguft ; which is the time that the European Ships which ufe the filhing Trade gencrally come upon the Coaft. Thote therefore who are bound to this Coaft fliould be fure, befide keeping a good Account and frequent Soundings, to kecp a good Look-out, that they may make the Land in time.

There is allo another thing by which they may know they are upon or near the B.nnks, and that is, the great number of the fowl calld Penguin, which they will find here : Some rell us there are abundance of other Fowls, and to there are, more indeed than are uliually feen any where elle.

But they that will have thofe other Fowls feen no where but on the Banks, are certainly miftaken, for all the forts, lich as Willocks, Gulls, Shecrwacers and Noddics, are often feen at a great diftance from the Banks, may it is affirm'd that they are feen 100 Ls off. Bue the Pcugritu is your faithful
and S .1 is furro near th Rocks cover' fmall they n flow h At fmall I part of calld d
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nof of our fo great a do ; fecing L from the founded, to ater Edge to ot more than f St. 'Jobn's, c, from the
alculated, it $4^{8}$ d. 20 m. cn which is f the Bank, have fome et you have
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## know they

 r number of acre : Some ) there are,no where 1 the forts, $s$, are often firm'd that our faithful
and S.W. is Ls. All the Shore of the whole Range of llands is furrounded with Rocks, fo that it is very dangerous coming near them in the night or in dark Weather; abundance of thote Rocks lying at a great diftance from the Illands, moft of then: cover'd at high and dry at low Water: If you are near them in a fmall Boat, as Boats often go among them in fair Weatha, they may be feen at high Water. N.B. The Tide dues net flow here above 5 Foor.

At the N.E. Point of the main Inand there are fo many fmall Illands and Rocks, and they lie fo ftrangely enclofing thit part of the Ifland, that they form of themelves the great Bay call'd Southampton Bay, which is the beft Harbour in the Place.

From the fame N.E. Point there is an Arm of Land ftetching out with a Hook, fo that it almoft meets with another Point of Land, and makes Harrington Sound, an excellent Harbour, and able to receive a Fleet of Ships, having 7 to 3 Fa. and very fecure riding, fhelter'd from all Winds ; and there is $3_{\text {to }}{ }_{4} \mathrm{Fa}$. in the Entrance.

On the S. fide there is likewife another Arm or Hook, which is fenc'd by feveral Inlands reaching to that part cal!'d Spanif/b 'Point: The Space within is call'd the Great Sound, and is a very good Hatbour : Allo the Entrance of this Sonnd gocs in between Spanifh Toint and Irelands IJland.

Within this Sound are feveral fmaller Harbours very good and fecure, fuch as Paget's Port, Witcharn Bay, and others; alfo there are feveral very good Bays and Harbours on the S.E. fide : But notwithftanding all thele, except you are very well acquainted, 'tis not advilable to come near in the Night: but if you make the Illand in the Evening, ftand off and on till the next Day, and then make a Signal for a Pilot to carty you in.

It is obfervable alfo, that thefe Seas are much more tempeftuous than any other of the fame Latitude this way, (the Reafon of which is very difficult to affign) being liable to ludden and violent Gufts and Storms, fo that the Spaniards us'd to call them the Devil's Iflands, and always thought is a good Omen of a profperous Voyage, when they were got paft that Latitude.

Due S. a little wefterly from the Burmudas, (leaving the Babamas as too numerous and too infignificant to take any particular Survey of them) we come to the W. and of the Mland of Hifpaniola ; between which and the Mland of Cuba lies the Channel which they call the Windward'Palfage, being the only other way ro difembogue out of thefe Seas from the Spanifh Coaft into the Ocean: I mean, befides the Gulph of Florida mention'd above. Having been then brought to the Inlands from the N . I Ihall take them as they lie for the Defeription of their Coalt in a half Circle, leaving the lles of Cuba and Hifpaniola to the laft.

St. Fobn, or St. Fobse de Porto Rico, is a long illand ftretching E. and W. Tli? diftance from the E. cnd of Mijpaniola, that is from Cape Sumana, the N.E.moft Land of HiSpamola, to Cape Anguada the weltermoft Land of Porto Rico, is $2 .-$ Ls. The N. fide is full of Rocks and limall Ifland, which licm

## Sailing Dirctions for the Bu

ficen to be wombare by the Ruge of the Sa. The principal Harbour lies N.W. on that part of the main Illand juft behmed the Illand Rigo: The Entrance into the Harbour is alotg the Shore of the little llland, becaute on the W. Point of the Harbour it felf there lics a Riff, which fhoots off half thwart the Latrance. On the l'oint of the Ifland flands the Cafle commanding the Paffage; and upon the W. fide of the Hatbour, upona Rock off of the findy Riff, another. When you are iin. the Haven is capable of recciving any number of Ships. The beftriding is a liete to the caltward of the City, becaule the caflerly Winds which blow trade hore, blow right in, and bring a large Swell of the Sca with them.
W. from this Harhour is another calld Cobeca, being in the Nourth of the Riscr of that Name: Juft in the Entrance of the Harbour lics an hland alfo called the Palfige, which sealhes quire thwart the Nouth of the River, leaving an Entrance for Shipping only at the $\mathbf{E}$. cond of it, fo that the Harbour is behind the illand.

On the E. chd of the lnand are fercral finall Cores, and a River calld Lizzia, and abondance of Rocks above and under Warer. The S. Coait of the Mland is cover'd with Rocks and Shoals, to that there is sery little Navigation on that fide.

You may anchor in the Bay of Angtada, and of 'Porto Rice, in ${ }_{2}$; Fa. foft and ouzy Ground. In coming into the Bay of singtuda from the N. you may come within a Mile of the Shore to the fouthward of the N. Point, and anchor there in 10 to 12 Fa .

Off of porto Rico duc E. and in a Linc from the E. cud of the Ithand, lics a Range of finall thands call'd the Virgius, thair Number uncreain: They lic E and W. in Lat. is d. 20 m . the Pafface thro' them was thought very difficult and hazardous tomerly: but the famed Sir francis. Trake, in his Attempt upon St. 'Domingo, went thro’ among them without daniecr. and Isft particular Dircctions for the paflage of others; decribing the Courfe to be very lafe, ftccring W. by N and W N.W', till you come to the W. cud of the fourth Ifland, which you muft leave on the Starboard.fide, and the Illand fimh Cheft on the Larboard. Between the two you will have 16 Fa a frec Channcl ruming on to the weftward, belore you alter the Courfe. There are fome places in paffing thro' Whece you have not above 6 to 7 Fa. but there is nothing to fear, and the Water is no where fhoaler than 6 Fa. in many places 10 to $=0 \mathrm{Fa}$.
E.S E. of the Virgine, and on the N. fide of the llfand of St. Martin, lies the Illand Anguilla, the fuft of the fimaller Shatilies. There are fome finall Illands between, as Sancia Cruz, Alugadd, and Sombreze; but there is to little Navigation to them, and very few or no Harbours, that they require no other Directions than to ftecr clear of them in your Courte to the Iflands of greater lmportance. There is indecd good anchoring on the N. fide of Sancta Cruz, in a large Bay, but no landing-place, or any frefl Water or People.

There is very good anchoring on the S. fide of Alyzilla,
$A: B$. tills and Neci. ping cor is no go anchoria Shoals, cale of ruII into which The ne:
N.E. not phan for Ship good runcas N.N 1 . two Plac or Sands
S. frol So, in brcadch? roundad Stranger I.cdge o Shore; and in acquain cvery p

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## ionis for the Burmudas Iflands.

principal it behmed alotiothe the Harowart the Itle comHarbour, 1) you are of Ships. ;, becanfe it in, and
ng in the trance of re, which g an Enthe Har.
res, and a and under Rocks and at fide. 1 of Porro to the buy vile of the rthere in
c E. cnd of c Virgills, is d. 20 m . d hazardin his Atn without of others; by $N$. and rch Iflanc, the Ifland will have rd, bciore Ting thro' nothing to - in many

Ifland of be finaller as Sancta le Navigathey rem in your c is indecd a large Bay,
N.B. From the E fide of Nevis to the W. fide of St. Martins and st. Cloriftopleces, your Courfic is N. and N.W.by W.

Necis is a timall tho prolpcrous Illand, and has much Shipping comes to it with but litele Convenience for them: There is nio good Harbour in the whose Illand, tho tolerable good anchoring on the S.W. fide, there being fieveral Rocks and Shoals, between which the Ships ride with lafety, except in calie of Hurricanes, when they put out to Sca, and if polf:ble rum into Autegoa. They have very good frefll Water here, which is hard to be had in feveral Places among the Illands. The nearneds of Sc. C.'brifiophers is now its bett Harbour.
N.E. from the E. cnd of Novis is an Ifland call'd Barbuda, not planted or inhabited like Necis, but much better provided for shipping; for on the W. fide is a good Road ing to ${ }_{14} \mathrm{Fa}$. good Ground, and well fhelterd. From the S.W. Point there rums a Shoal of Sand above a Ls into the Sea, and from the N.N W. Point another ; fo that tis dangerous coming at thote two Places: But the W. fide is clean, and clear of cither Rocks or Sands.
S. from Bulbuda, and between it and Guadalupe, lies Aute50,2 in ${ }^{17}$ d. N.L.Lat. it lies in lengeth from E. to W. 5 Ls, and in breadth N. and S. ${ }^{\circ}$ Ls. It is in many, if not in molt parestirrrounded with Rocks, to that it is a difficult Coant, etjeccially for Strangers: And all along the $\mathbf{N}$. fide of the Illand there is a Iedge of Rocks lying ofl in the Sea near 2 Mules from the Shore ; but there are ieveral Channels to go in between them, and in tome places over them: But that requires being well acquainted, Pilots not beng always found to carry into cvery part.

There are many Inlets among the other Rocks on every fide the Illand; and Antegoa is particularly fanced for good Harbours, beyond all the illands which the Einghifh pofficis in thefe Seas. The promeipal are as follow:

> 1. Nonfich Harbour.
> 2. H'illoun'份's Bay:
> 3. Falmonth Harbour.
> 4. Eing lijl) Harbour.
5. Carlifle Road.
6. St. fobin's.
7. Firic Illand Harbour.
r. Noufich Harbour lics at the E cud of the Inand: On the S. fide is Gireen I/laud. The beft going in is between this Ifland and the S. Point of the Harbour, which they call Huugry IIill, where you have 5 Fa almoft all the way. In the Entrance, on the N. fide of Green Ifand, the Road is foul, full of Rocks, and ut the Channcl not above 6 to 8 Foot Water, except in one place, which is very difficult.
2. S.E. from (ireon Ifland near 2 L.s lics Willoughby Bay ; the Mouth of it is very wide, lietle lefs than a 1 . over, but is above two Thirds of it block'd up with a Sand or Shoal, which lics off from the N. Point, flectchng directly to the S. Point; from whance another Sand pips ofl, as if it would meet the firft, and block up che Habour. This is call'd Sandy Point.

- Ansuilla,

Between thefe however there is an open Chamel, where

1. m , Clith on the larboard. Between the two you will have 16 Fa a frec Channcl running on to the wettward, betore you alter the Courfe. There are fome places in palling thro' Where you have not above 6 to 7 Fa. but there is nothing to fear, and the Water is wo where floaler than o Fa. in many places 16 to $=0 \mathrm{Fa}$.
E.S E. of the lirgine, and on the N. fide of the Inand of St. Martin, lics the lland sugnilla, the firf of the maller shati.tes. There are fome finall Illands between, as Sancta Crime, Aucgath, and Somberé; but there is to litele Navigation to then, and very few or no Harbours, that they require no other Directions than to ftecr clear of them in your Courte to the Itands of greater lmportance. There is indeed good anchoring on the N. fide of Saucta Cruz, in a large Bay, but no landing-place, or any frefl Water or Pcople.

There is very good anchoring on the S. fide of Anguilla, the Cirrent being gentle on that fide, for it comes from the NE. And there is a long Ledge of Rocks flretching off from the E. Yoint, which breaks the Force of it. The E. fide is corcrid with Flats and Shoals, and fraall Iflands, fo that it is almoft inaccetible.

Si. Dartion lies S. from Auguilla in l.at. iS d. in m. it ftretches E.N.E. and W.S.W. ; L.s, and about 3 in breath. There are fercral good Bays and Roads on the N.W. fide; and the Channel between it and Alyguilla is free from Rocks, and ciean Gremen : particularly on the W. cnd of the Ifland there is a very good Road ing to ro Fa. goodclear Sand: And on one fide of the Road are two or three Salt-Ponds, where Ships load Salt with great Convenience.

St. Barthotomn'w's lics S.E. from St. Martin's, and from the N.E. Point of St.Cbriffophere N.W. but neareft St. Martin's, and in the fime Latitude to a Minute. There are no Roads or anchorimplaces upon the Coaft of this Ifland, nor much need of them. There are two little Iflands W. of St. Barthe lom ${ }^{\text {and }}$ 's, call'd Saba and Effatia ; the laft dift. W. by N. from the $W$. Point of St. Clirifopther's about 3 Ls , and the former much the fane dift. from the latter. There is nothing to be taid of them, bur that they are wild Rocks, and to be avoided, having neither People nor Produce upon them.

St. Coriffoplers is a large llland about 7 L.s long and 4 broad, the S.E. chat runs far out in a tharp Point, and is almoft taken up with a great Sale Pond.There are two good Roads near that part, which were formerly diftinguifh'd by the Euglij) Road and the French Road, but are now both Englijh, as the whole Illand is, yet may perhaps kecp the Names: The Enylifh, Road gocs in at the S.E. Point, and the French at the N.W. Off of the W. Point lics a fimall Ledge of R -cks, and off of the $W$. Fide of the S.E. Point a little Ifland. The Ifland of Nieis or Mecis, lies off from the S.E. Point of St. Cbriffophors due S.E. and the Paffage berwecn is to narrow and fo fond, that therc's no pafing without crident hazard of lofing your Ship.
ou will have ward, belore palling thro' is nothing to Fa. in many
the Ifland of f the fimaller u, as Sancta little Navigahat they rehem in your iere is indeed in a large Bay, le. of Aysuilla, nes from the ing off from hic $E$. fide is fo that it is

3 d. 11 m . it 3 in breath. W. fide ; and Rocks, and Ifland chere id : And on onds, where
and from the St. Martin's, : no Roads or , nor much of $S_{t}$ Bar ift. W. by N. Ls, and the re is noching s , and to be n them.
5 and 4 broad, almoit takcn oads ncar that Englijh Road as the whole The Emyili/h at the N.W. s, and off of Fhe Illaud of f St. Cbrifto. narrow and fo ard of lofing
+. Linglifh Harbour.

1. Nou/iuch Harbour lics at the E cnd of the lland: On the S. fide is Cirect Ifland. The beft going in is between this Inard and the S. Point of the Harbour, which they call Mangry I/ill, where you have ${ }_{5}$ Fa, almott all the way. In the Entrance, on the $N$. fide of Gircen Iffand, the Road is foul, full of Rocks, and in the Channel not above 6 to 8 Foot Water, except in one place, which is very diffleule.
2. S.E. from (irecin Ifland near 2 Ls lics Willougbly Bay ; the Mouth of it is very wide, little Icfis than a L over, but is above two Thirds of it block'd up with a Sand or Shoal, which lics off from the N. Point, fltetching directly to the S. Point; from whence another Sand fpits off, as if it would mect the firft, and block up the Harbour. This is call'd Sandy 'Point.

Between thele however there is an open Channel, where Ships of goodburden may go in ; and when they are in, there is very good siduy almoft every where, except that in the very Entrance, and on your Larboard fide, there is a litele Shoal called the Horficthoc; but it is above Watcr, and plain to be difecrn'd by the Rippling of the Sea.
3. W. or W.S.W. from this Bay about 4 . Miles lics Falmout/s Harbour.
4. And between them both, but nearer to Falmonth, lics Emg li/b Harbour.
5. W. by S. from Falmont/ Harbour abour 5 Milcs Jies Carlifle Road. Thete are all fair Harbours, with little difficulty attending then : And at Falmouth clipecially, what difficulty there is may be made cafy; for the Town being near the bottom of the Harbour, you may always have a Pilot there, as you may allo at the warcring place in Carlifle Road.
W. from Carlifl/ Road there is a very frightful Ledge of Rocks call'd the bireake's, becaule the Sca always makes a great Breach upon them: Thecte Rocks lic along with the Shore, as far as off of "Fobulou's Point, which is almoft 8 Miles; it is truc, there is a Chamel between thete Rocks and the Shore, but a Stranger would do well to kecp off till he gets help.
N.W. from thofe Rocks lics a Sand as dangerous as the worft Rocks, extended N . and S . in lengeth (including a Tail of Rocks, which rums out from the S.W. Point of the Sand towards the Rocks) almoft 2 Ls, and reaching almoft to the Fite Iflands; fo they are calld, being tome fimall rocky Illands oppofite to the great Opening or Bay calld $F$ Five Ifluhd Harthour, on the W. cnd of the Ifland.
6. This Five Ifland Harbour is wide, and gocs far in, and is therefore call'd a Harbour, but hardly merits that Name, for 'ris full of dangerous Rocks. Shoals, Ruffs, and uncertain Decps, fi) that 'ris a very difficult Place : Yer to thofe that are well acquained 'tis made helptinl in cafis of Diffrefs, and in northerly and eafterly Winds there is Sheter cnough. There are allo two Crecks ar the Bottom of the Bay, whin might be made uffitul for fimall Veffels ou many Occafions.
7. Dic

## Sailing Directions for the Carib

7. Due N. from Five Ifland Harbour lics St. Yobn's, which is call'd the beft Harbour (or Harbours, for it is a double one) in the Ifland, and is accordingly the moft in ufe: The Courfe to thefe Harbours indeed lies N. and S. but the Harbours themfelves lic rather N.E. and S.W. There is a Sand, which running out from the N. Point of the Entrance, where the Fort ftands, and ftretching S.W. lies quite thwart the Harbour, home to the oppofite Point and is a plain Bar crols the
 ter, fo that no Veffels drawing more Water hould venture over it ; the decpeft part of the Bar is at the S.W. end, for at the N . Point under the Fort it is bare 2 Fa. Your way in, is to kec , all along under the S. Shore from Ship-flern Point to the Bar: All the Shore is bold and clean, fo that you have nothing to fear, tho you come within a Coit's caft of the very Point; for there is 9 to is Fa. clofe to the Land. The Defeription of this Coaft is more particularly given, becaufe it is an Ifland much frequented by Shipping, and full of Bufincts, and allo a Shelter for other Ships in diftrefs, becaufe of the many good Roads about it.
W.S.W. from Antegoa lics the Illand of Montferrat, a little but well-planted illand, and fome Ships confequently go to it ; but 'tis fo furrounded with Rocks, that there is very uncertain Riding before it, and no place on it that can be call'd a Haven: So nothing can be faid of it, but that in cafe of a Tornado the Ships mult put off to Sea, and make to St. Chrifinphor's one way, or to Antegoa the other, according as the Winds may ferve, or according to what place they lic in before.
S.E. from Mount ferrat, and duc S. half E. from Antegoa, lies the Ifland Guadalupe, or Guardalupe, a French Colony: it is form'd of two lnands, for there is a narrow unnavigable Channel between them, which does effectually feparate them: Boats may go thro' this Channel, and fome fay that fmall Sloops have pals'd it, but I doubr the laft ; and as for Ships going thro' that is not pretended. The Navigators therefore reckon them but one Illand.

The whele extends in length N.E. and S.W. with fome fmall difference inclining N. and S. On the S. fide is a good Road, tho in deepWater 30 to 50 Fa. Here are feveral fmall and moftly uninhabited Iflands efpecially in the way from Nevis hither, and farther $S$. which being of no ufe in Navigation, and having no Shelter about them, are only nam'd that they may be thun'd; fuch as Redonda, W.N.W. from Montferrat; des Santos, being four Iflands lying due S. from the W. end of Guadalupe; Ares, W. by S. from des Santos; and Defeada, N.E. from the S.E. Point of Guadalupe.

Marigalant is a rocky dangerous place, many of the Rocks about it lying under Water, yet on the W. fide there is a fair Strand, and good anchoring in feveral places.

Due S. from Guadalupe, and N.W. from the W. part of Martinico, lics the Ifland of Dominica. There is a very good Road off of the S.E. Point of this Ifland, fit not only to jecure Ships, but to clean and careen in. This Road is in a fair Bay; 'tis known by a high Pico, or fharp Hill, lying as it were an Ifland juft before the Road, and which makes it a

On the N. 1 broken Rocl on the S.W. a particular ward, and b or Bay. Ri Devil's Illa at the End 0 the Deck. within this There are fe is here, who Men of W
S.W. frot fair finooth yct neither deep and for where ther more conve fide of the

Duc S. fr 13 d .5 m. are very go the S.W. at a good Har moft of the ty of Wate is from is round the
S. and S. moft of the Granada,

Duc E. the Ifland Caribbees, them, bein E. fide are means ther yet the Sh except to fide, viz. bay, Knoi and orhers

But the Bay, near anchor he, Ground is the worfe your Cabl endanger 25 to 301 cvery fide S. by W Inand of 7 and farac

## for the Caribbee IJlands.

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Rocks is a fair
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On the N. fide and on the S.E. fide, the Shore is full of finall broken Rocks and rocky Inlands, dangerous to come to ; but on the S.W. fide'tis very fair, and a clean Coalt : And there is a particular Point of Land which ruming out wefterly to leaward, and bending like a Man's Arm makes a very large Gulph or Bay. Right off of the S. Point of the faid Arm lies the Deril's Ifland. This Bay goes fo far in, that when you are at the End or Bottom of it, you camor fee the open Sca from the Deck. There are allo leveral fimall Coves or Harbours within this Gulph, one of which is call'd the Governor's Bay. There are feveral good Roads befides this, but the principal Port is here, where the Caftles and Forces are kepr, and where the Men of War ride.
S.W. from Martinico lics the Ifland of Si. Lacia: It has a fair fimooth clean Coaft on all the S. fide of the Ifland, and yet neither Bay nor Road, the Ground in the Offing being deep and foul : But on the W. fide there is a very fine Bay, where there is good anchoring, call'd Ronud Bay; 'tis the more convenient for Navigation, becaufe it is on the Lecwardfide of the lland.

Duc S. from St. Lacia lics the Ifland of St. Vincent, in Lat. 13 d. 5 m . being in a Line E. and W. with Barbadocs. There are very good anchoring. grounds on every fide, efpecially on the S.W. and W. Coalt of this Ifland; but the chiet Place for a good Harbour is the Bay of St. Anthony. There are alfo in moft of the little Bays here, good Places for watering, and plenty of Water at any of them: in the Bay of St. Antbony there is from is to 36 Fa. Herc is, in fhorr, good riding almoft all round the Inand, but no Bufinefs.
S. and S. by E. from St. Vincent lics a long Range of Iflands, moft of them uninhabited, and perfectly ufeleds in Navigation; Granada, which is the moft foutherly, lics in Lat. in d. 45 m .

Due E. from St. Vincent, and in the fame Lat. as above, lies the llland of Barbadoes: it lics out of the Range of the Caribbecs, and fome will have it that it does not belong to them, being diftant from St. Vincent about 22 Ls. On the E. fide are leveral Points bearing out into the Sea, by which means there are teveral good Bays and Roads on that fide; but yet the Shore is generally cover'd with Rocks, and dangerous except to fuch as are well acquainted or well directed. On this fide, viz. E. and N.E. are Long Bay, Foul Bay, Michact's bay, Knots Bay, Conftant's Bay, Eafting's Bay, Rivir's lay, and others, in all which there is good anchoring on Occafion.

But the biggeft and beft is on the S.W. fide, call'd Carlifie Bay, near the capital Town call'd Bridge Towin: Youmay anchor here in what depth you will, from 12 to 30 Fa. but the Ground is bad over the whole Bay, and the nearer the Shore the worfe the Ground; therefore you muft be fure to buoy up your Cables well, and have them well ferv'd alfo, or you will endanger lofing your Anchors. The great Ships gencrally ride in 25 to 30 Fa . In a word, there are good Bays and Roads on every fide the Illand, bur not one Haven or Harbour.
S. by W. from Barbadocs, and dift. 32 to 33 Ls , lics the Inland of Tobago, extended in Iength N.E. and S W. about o Ls, and fcarce one in breadth, lying about it Ls due N. from the

The whole extends in length N.E. and S.W. with fome fmall difference inclining $N$. and S . On the S . fide is a good Road, tho in deepWater 20 to 50 Fa. Hereare feveral fmall and moftly uninhabited Illands clipecially in the way from Nevis hither, and farther S. which being of no ule in Navigation, and having no Shelter about them, are only nam'd that they may be thun'd ; fich as Redonda, W.N.W. from Mont/ferrat; des Santos, being four Iflands lying due S. from the W. end of Guadalupe; Aves, W.by S. from des Santos; and Defeada, N.E. from the S.E. Point of Guadalupe.

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Duc S. from Dominica lics the N.W. and of the Inland of Martinico, a Freuch Colony, and the largeft of all the Carable Iflands. In the middle of the Inand is a large high Mountain, which is the Sca-Mark for all the Coafts, and by which the Inand is known, which way foever you come to it.
E. fid means yet th cxcep fide, Liay, and o

Bu Bay, anch Grou the your endal 25 t cyer S. Inlan and E. Roa exce
mon

## Sailing Directions for the IJlands on the North an the Ifland of Hifpaniola to the I.

 Aving in the above Account of the Antilles omitted thele larger Inlands of the Gulph, and beginning at the Illend of Porto Rico proceeded to the Coalts of the Caribbees, we now come back to the faid Porto Rico, where the Account began ; and leaving it on the Starboard-fide, we obferve, thar due W. from Porto Rico, dift about 20 to $=2$ Ls, lics the great Illand of Hi/paniola.

The N.E. Point of Land upon this Ifland is Cape Samana, formerly calld Cape St. Rapljacl; it runs a great way to feaward, the Land bcyond it falling in S.W. or S.W. by W. and making a large Bay. There is on the W. of the Cape both a City and a River of the fame Nance of Samana, or as fonc write it Sumana; the River is a pretty large

Stro for
hi fomefmall good Road, 11 and moftly is hither, and ad having no y be thun'd; Santos, being plupe; Aves, E. from the
of the Rocks here is a fair
c W. part of re is a very t not only to Road is in a Hill, lying as ch makes it a d, but is not would go inlaving it on sc of Rocks d. There is former, where a hard Sand, a Village on ood watering-
the Illand of of all the Ca a large high Coalts, and by ou come to it.
E. fide are icveral Points bearing out into the Sca, by which means there are teveral good Bays and Roads on that fide; bue yet the Shore is generally cover'd with Rocks, and dangerous except to fuch as are well acyuainted or well dirccted. On this fide, viz. E. and N.E. are Loug Bay, I'oul Bay, Michall's Lay, Knots Bay, Conftant's Bay, Eafling's Bay, Rivir's lia, and others, in all which there is good anchoring on Occafion.

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S. by W. from Barbadoes, and dift. 32 to 33 Ls, lics the Inand of Tobago, extended in length N.E. and S W. about o Ls, and fcarce one in breadth, lying about it Ls due N . from the E. end of Trinidado, in Lat. is d. N. Here are feveral good Roads and Bays for Ships to anchor in, but as the Current is excecding ftrong, and always fets from the E. to W. it makes moft of the Bays and Roads ufclefs.

The beft Road is in little Hog Bay, where you may ride with great Security, the Town and Fort if inhabited lyng due N. before you: But here is no Bufinefs, nor is it certain whom the Place is poffcis'd by, Cometimes Eugli/b; fometimes Tuutch having the Government of it, and offen ncither one or orher.

Thus far the Iflands call'd the Antilles and Caribbecs are faid to extend: There are fome few Inlands farther S. but as they rather belong to the Coaft of South-America than to the Caribbees, we thall refer them to their proper place, and go back to the larger Illands of the Gulph of Mexico, which are more particularly concern'd in the Navigation of the faid Gulph.

## in the North and Weft fide of the Gulpb of Mexico, from paniola to the Ifland of Jamaica inclufive.

intilles omitted d beginning at o the Coalts of , the faid Porto d leaving it on m'Porto Rico, tifpaniola.
Cape Samana, it way to feaS.W. by W. $V$. of the Cape of Samana, pretry large

Stream for 3 or 4 Ls into the Country, but then is too finall for Boats, and otten drys up in a hot Seafon.

On the W. fide of the Mouth of the River, towards Cape de Cabron, lic four fmall Inlands near the Shore, which lerve to make the Bay a fafer Road; if you would go into this Bay of Sumana, oblerve to bring the weftermoft Point of Cape Cabron (for the Cape makes in two Poinss) open to a whire Spot of iandy Ground, which you will fee on the Shore, and with that Mark run into the Gulph : The Soundings are very uncertain, for when you are thot juft into the Harbour, you have io Fa. and foon after no Ground at 20 .

There are feveral Keys (that is to liy Rocks) and Points in the Bay, by which the beft Ground for Anchorage is markid * Mm
nat.

## Sailing Direilions for the I/lan

out, fich as (!.) Pifur Point on the N. fide, but F. from you, dift. ${ }^{\text {L }}$. (2.) The Gיeat Key, that is a great Rock, E.S.E. ${ }_{3}$ Nites. (3.) The Low Pomt to the N.W. 5 Milcs. (4.) Bamificer's Key W.N.W. i Milc. You may anchor at any of thefe, oblerving only that the beft riding is in 14 Fa about 3 quarters of a Mile from the Shore.

Cape Cabron lies N.W. wefterly from Cape Sumama; 'tis a lroken Point, and makes at a great diftance like a Ship with her Topmaft Aruck, but coming nearer reftores it to its Shape.
From Cafc Catmon the Coalt gocs away W. kecping betwecn the Main and an Illard that lies about a Mile from the Land: The Shore is ftecp too, and youmay go as near as you pleate.

Before you come to the illand, you have goodSoundings from $S$ to 14 Fa. and atterward in is to 19 Fa. kecping the 1nand N.W. by W. from you: There is ulually a Day-brecee upon all this Coalt fiom the caftward.
W. from Cape Cabron lics Cate trances; 'tis a high Point, and has a falle Cape on the $E$. fide of it, but you mult be carcful to obterve it narrowly, and kecp a good Offing, and then you will difoover it in time.
W. from Cape trances comes in a Rixcr, but not navigable ; on the W. fide of which River lies the Harbour of '"onto Plata in the Bottom of a Bay: In failing in you muft leave fome finall Inands which lie in the Mouth of ir, on your Starboardfide: 'Tis an excellent Harbour when you are in, and good Ground, every where well fecured, and has 8 to 16 Fa . Water.

Due W. from 'Porto P'lata lies Monte Cbrifto; but your Courfe is N.W. till you can double the great Cape, which lics from the Porto Plata N,W. wefterly, io Ls. Then go away SW. is Ls more: to that'tis 25 Ls by Sca, and but abour If on a Line by Land. In failing this Courfe give a good Birth to the Cape, and to three Illands which lie off from it.

On the W. fide of Monte Cibriflo lic feveral fmall Inands, which you mult give a Birth to allo, and then go away to Miandinetti Bay, Icaving all the Inlands on your Larboardfide. From the $W$. Point of the Bay lics a grate Shoal of Sand, flretching W. off a great way; keep without it in 4 to 5 Fa. There are feveral Rocks on the W. fide of this Bay, calld Caya Palmeta. As for the Mands. Cays or Rocks not named, you have nothing to do but to keep withour them all at a good diftance. There are many Rivers alfo in rhis Bay, and the Spaiturds have much Shipping here, efpecially Sloops and Barks to trade for Provifions; and there are abundance of pretty good Towns confidering the Place, as 'PortoReal, Porto Francois, Port Palma, and others. If you are bound into any of thefe Places, there are Pilots to direct you in ; for the beit printed Dirctions are very imperfect, and not to be trufted to.

To the W. of the Bay of Manfanetti (for fo 'ris fometimes calld lics Cape St. Nicholas; and off of Cape St. Nicholas lics the Illand of Tortuzas, or Tortudas S.W. and N.E. 'tis almoft fiurrounded with Rocks as well on the N . as on the W. fide;

## sfor the Illands th the Gulphiof Mexico.

E. from you, u Rock, E.S.E.
5 Miles. (4.) chor at any of 11 it Fa. about 'umana: 'tis a ee a Ship with it to its Shape. esping between om the land: as you pleale. ood Soundings
a. kecping the ; a Day-brecze
a high Point, u mult be carefing, and thon
not navigable; of Yorto Plata uft leave fome our Starboard= in, and good 016 Fa. Watcr. iflo; but your pe, which lics Then go away and but about fe give a good ic offfrom it. 1 finall mands, a go away to our Larboard. great Shoal of hout it in + to e of this Bay, or Rocks not ithout them all lfo in this Bay, pecially Sloops c abundance of prtoReal, Porto are bound into ou in ; for the and not to be
'tis fomctimes St. Nicholas lics N.E. 'tis almoft on the W. fide;
a Riff of Sand between, that there is no going I cewcen the Cape and she Inand. From thas Illand the Courle is S.W. to Cidpe Tiberon, call'd by lime Tuberon, by others Tibron: It is the weflermoft Land of the whole Ihand of Hi/paniola. From the $N$. Point of the Illand Cambta to the W. end of the Riff off of Cape Tiberoul, is 191 s .
N.E. by N. from Ciape'Tíveron o Ls lics Douna Maria Bay, calld to from a Mountain within Land of the fame Name, which is a Sca-Mark for all that part of the Streight. Clote under the Cape on the N. fide is a good Road, call'd the Bay of Allegata.
N.W. by W. from this Cape lics the 1nand Nazafo. or Nozof 1 , dift. 12 Ls, bcing directly in the Courfe call'd the II indw'ard 'Pallis!', of which in its Place.
from Cape Tiberon the Land talls away S.E. for 10 I.s, and then E. by S. to Cape Bucos Ls more, and then S.E. from the Cape lies the Inand Vache or Fiacor, which the Spaniards pronounce as we do $l^{\prime}$ 'al $/$, and from thence our Scamen call it corruptly the Ifli of All/; whereas its true meaning in Enslifh is the I/le of Ciours, callid io fiom the great Quantry of Black Cattle found here by the Sailors, who ulually land to hunt and kill them.

The Illand fretches awny E. and W. 7 Ls making withith, the Ray of Savanna, a well known Place for the Buccaniers Rendezronzings, and for getting Black Cattle for Victualling. 'The E. cud of the $1 / \mathrm{le}$ of $\mathrm{C} / \mathrm{l}$, is low and thoal ; you mult not come within 2 l.s of it except in Shallops From hence a large Rifl off Rocks flretches out moto the Sea N.N.W, almoft + I.s: Upon which Rifl a rich Eughth Ship call'd the \%amaica Alerchant, Capt. Morgan, was formerly loft, tho the Rocks are all above Water: The Ship fruck upon the fouthermoft of the two Keys (as they call them) on the laid Rocks, where the Pcoplegot on Shore, but could never get the ship off:

Between thofe Keys or Cayes is good anchoring in ${ }_{q}$ Fa. but Morgan's Ship being in Diftrets, and in the Night, could not fetch to the Road. To the caltward of the W. Point of the llland is a Range of Kcys (lo they call the Rocks above Water) which are ftecp too; they ftretch away E. by S. round that part of the Mand almont 3 Ls near to Morgan's Key, (now call'd to, becautc Capt. Alorgan and his Paffengers came on Shore upon it) between thote Keys and fome other Rocks at the E.cnd, the Shore is all Rocks and Shoals of Sand very dangerous.

N'. B. Our pilots affure us, that duc S. from this unhappy Inand dift. ; Ls off at Sea, there lies a dangerous Riff or Shoal of Sand, fretching outward near 3 L.s, and that there is not at low Water above 3 Foot Water on it.
E. from the Ifle of A/J lies Port Lewis, named to by the French; who are planted there, and where they have a good Harbour under the Mountain, with a Road before ir, with $; \mathrm{Fa}$. Water : Aud a-breaft of the Port half a Mile off you have 6 Fa. very good Ground.

5 Fa. Thore are feveral Rocks on the $W$. fide of this Bay, call'd Cijia T'uinutia. As for the Inands, Cays or Rochs not named, you have nothing to do but to keep without them all at a good diftance. There are many Rivers alfo in this Bay, and the Spariards have much Shipping here, efpecially Slonps and Barks to trade for Provifions; and there are abundance of pretty good Towns confic aning the Place, as 'PortoReal, Porto Prabiois, Port Palma, and others. If you are bound into any of thefe Places, there are Pilots to direct you in ; for the beit printed Dirctions are very imperfect, and not to be trulted to.

To the W. of the Bay of Manfanetti (for fo 'tis fometinacs call'd, lies Cajé St. Nicholas; and off of Cape St. Nicholas lies the llland of Tortusas, or Tortudas S.W. and N.E. 'tis almoft tiurrounded with Rocks as well on the N. as on the W. fide; but oa the E. end lies the Road, difficult to find, and Atrange1y difficult when found, by reation of Rocks and Sands, almoft every where; which horever are the Safery of the Place when you are in, for then nothing can hurt you: But you mult be very well acquainted if you find the Channels without a Pilot. There are feveral little Roads alfo on the N. fide of the Inland among the Rocks, if you can find your way in; but 'tis fo hard to find thele alfo, that 'tis not worth the hizard.
N.B. This Ifland of Tertugas was formerly the great Rendervous of the lirench Buccaniers; and perhaps the Difficultics of the Entrance and of the Roads on every fide of it, was the chicf thing that made it fo.
W. from this Ifland is Cafe St. Nicholas, off of the N.W. Point of the main Illand; which Point runs out almoft Gunfhot from the reft of the Land.
A. B. From Cape St. Nicholes to Pettyguaries'tis always calinfrom $;$ or 4 in the Morning till Noon (Tornades cxecped) then from Noon till 3 in the Morning the Scabrecze forings up without fail.
S.E. off the Cape about :o l.s lics the Harbour and Bay of Petyguazzes: To go in there give the Point a good Birth, becaufe of a Shoal which lies off. When you are open with the Point, you will fec a fmall ifland, which you muft leave on the Larboard fide, and go into 10 and $I_{2} \mathrm{Fa}$. or clofe by the lifand, if you think fit, in 4 and 5 Fa .

There is a good Road S.W. from this Harbour, on the W. Point of the Entrance into the River Antcbontque or Antebanico; but the River is good for nothing, being dry at low Water. And S.W. from the River is a large Bay calld Faguana, with feveral finall Ports in it, but of no conlequence in Navigation; nor is the Harbour and riding in the Bay verygood, the beft is under the N. Shore.

Twenty-cight Ls W. by S. from this Bay lics Cape Rofa: On the E. fide of it is a little deep Bay rumning 3 Ls into the I.and; and N.E from the Cape is the Ifland Comita or Camita, ditauce foom the Cape $;$ Ls, but all to foul with Rocks, and
of this Bay, or Rocks not thout them all lo in this Bay, occially Sloops : abundance of rtoRcal, l'orto rc bound into ou in ; for the nd not to be
'ris fometimes t. Nicholas lics N.E. 'tis almoft n the $W$. fide; , and $\operatorname{tr}$ range. ind Sands, al$y$ of the Place But you mult uncls withour a the $N$. fide of your way in ; lot worth the
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cs Cape Rofa: 3 Ls into the ita or Camita, th Rocks, and

Which anc flecp too ; they flretch away E.by S. round that part of the lland almoft 3 Ls near to Morgan's Key, (now call'd to, becaufe Capr. Alorgan and his Paffengers came on Shore upon it) between thole Keys and fome other Rocks at the E.cnd, the Shore is all Rocks and Shoals of Sand very dangerous.
N'. B. Our Pilots affure es, that duc S. from this unhappy 1fland dift. 3 Ls off at Sea, there lics a daugerous Ritif or Shoal of Sand, flectching outward near 3 Ls, and that there is not at low Water above 3 Foot Water on it.
E. from the Ifle of A/s lics Port Le ewic, named fo by the Frencls; who are planted there, and where they have a good Harbour under the Momeain, with a Road before it. with 3 Fa. Water : Aud a-brcalt of the Port half a Mile off you bave 6 Fa. very good Ground.

In all thefe Roads the Ships lie to get Hides, which they either buy of the Buccaniers, or go on Shere at Sazannas Buy, and kill the Cattle for them. This South fide of Hi/paniola is void of other Trade, fo the Shore is much our of ule, and not exactly furvey'd. The principal Places are Port Congo, 7aquimo, Cape de Lobos, Cafe de Alongua, Alliovalla, the Bay of Sambar Beata, the Bay of Honda, and Occoa de Ilato, Cavalcero Point, Zapezein, the Bay de St. C'atberine, or C'attalino, Punta de Nifao, and the Port and City of St. 'Womingo.

St. 'Domingo is the only Place of Conlequence : It is a good large City, and has a very finc Harbour, the Entrance late, but not very ealy: If the Spaitiards will let yougo in, rhey will fend you a Pilor; bur they are very ferupulous of any Strangers entring, tho in time of Peace; being to much afraid of the Buccanicrs and Firee booters, and having been formerly plander'd and burnt by the Englifh. But if you would go in whether they will or no, run righe with a flat Tower towards the Cattle, and you will have 15 Fa . within a Mile of the Tower, open to a flat Point on your Starboard fide, and a hitt!: within a finall Fort which lies on the left : in a word, if a Flect able to palis and batter the Forts are willing to venture, they cannot do amifs as to the Ground, if they run in directly in the Mid-Channel.

From Cape Cavalero, the caltermoft Point of the Entrance into St. Daining, to the Illand Saona, is 3 r.Ls, the Courfe E. by S. or E. halt foutherly. The N . and S . fide of the Inand is all rocky and foul: tunder the E. cud you may ride in 8 Fa. but not well helter'd.

From hence to Cape Enganno is :s Ls: this is the eaftermoft Land of Hifpainiola, and is diff. from Cape Sumana 16 Ls, the Courfe S. by E. and N. by W.
N. B. From this Illand of Hifpariola N.E. lie abundance of Shoals and Flats, and among the reft the Shoal where Sir W'illiam Phipps fifh'd up his Plate from a Spanilh I'reck. alfo many Inands and Banks, all which asc included in what hasbeen already mention'd of the Babamas. which takc their
 $\mathrm{D}: \mathrm{c}$

## Sailing Directions for the Coafts of

Dic W. by N. from Cape Nicholas on the W. end of Hif. fanola lics Cape Mayzo being the eaftermoft Land and Point ot the llland of Cuba dift. between the Capes 9 Ls.
$\lambda$. $R$. In this Streight holding within half a L. off from Cape $M_{a y} \approx 0$ lies the Courle thro', which they call the Windward Palfage, and is farther defcribed in its place; juft oppofite to Cape Mayzo the laid Courfe changes from N.E. to N. by W.

Irom this Point the N. Shore of Cuba ftretches away W. by N. and then due W. to the Ifland Baracoa, and thence paffing feveral tmall places of no note, as Bilta and Zanara to Cabo () uibannano, a Cape remarkable for little but its Situation and bemg oppofite to the Iflands Verde and Mucaros, and the begiming or S.W. Point of the great Babama Bank, diat. N. by W. and S. by E. it Ls.
W. of this lies Cabo de Cruis, and feveral fmall Iflands and Bays of no importance to Navigation, till you come to the great Bay of Mattancas. The Coalt between makes the S . Shore of the Paflage called the Old Streights of Babama, the N. fide being made by the S.W. Edge of the great Babama Bank often mentioned above; from Cabo © $Q_{1}$ ibanico to the Bay of Mattaucas, the Coaft is W.N.W.

Mattancas is a wide large Bay deep into the Land, it goes in S. and on both the Points at the Entrance there lic off great Shoals of Sand, fo that you muft take a good Offing ; and allowing a Birth to both Shoals you muft go in Mid-Channel: after you are in, under the Shoal of the E. Point about a Mile and a half from a little Houfe, you may anchor in 5 to 7 Fa . nazy Ground: On the flat of the E. Point you have not above 9 Foor Water ; when you are farther in the Bay, you may anchor where you pleafe.

Off of the Mouth of this Bay about the dift. of 36 Ls from the W. Point of it, you have good Ground at 5 to 35 Fa . gradual Soundings, but between the Land and that dift. no Soundings at 250 Fa .

Weft from Mattancas dift. 20 Ls is the Entrance into the Havanna. This is a fam'd place for fhipping, the Harbour is fpacious and the moft convenient in the whole Inland; the Entiance is narrow, being between the Sands which lic off of the Points, no broader than that 2 or 3 large Ships may fail in abreaft of one another ; but after you are in, there is Water and breadth enough for a Royal Navy: The Fair Way in is MidChannel, a finall Shoal lying off cither Point; the Entrance is due $S$. in, and when in, a hundred Ships may lie in the foff Ouze without Anchor or Cable; you need no Pilot to go in, nor any Directions when you are in ; for keep the Fair IVay in as above, and whei you are in go where you will; if you run a-ground you will get off again, unlefs you run on juit at high Water Mark, and on perpole for Milchicf: The Fortifications and City are already deteribed, to which I refer.

W from the Havanna lies the Port of Cavanos, being a fine open Bay with 4 to 5 Fa . in the Entrance; and 8 to 9 Fa . when e:tred; it is a large Bay, and runs fo far in, that 'tis able to recelve che largeft Flect of Ships that ever ufes thofe Scas. There are leveral fimall places beeween this and the Havanna, and with good Anctoring, but of 110 importance, when fo

If you wo
Fifhermen ; bchind a littl Ground, and N. B. Alı Water Land Brc $N . B$. In Inland un (if the $S$ time get no; and the next in this Ba
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Cape Corio thing of note with Trecs, Ifle of reines Corientes 20 Ifland Itrerche Cuba 6 Ls, a paffable. Sh Bulls for thei

All the Co and Rocks, thought it w fome Rivers and Iflands, lors vifit the ftruction.

Here runs to Cape Cry dift. $33 \mathrm{Ls}, 2$ All between ticable Coaft.

From this Rocks. trend

- Hif. If you would go far in, you may have a Pilot among the Fifhermen ; but if you would only ride for Weather, anchor behind a little Ifland on your Larboard fide in 4 Fa. good Clay Ground, and youlic ready to go out with the firtt fair Wind.
N. B. Almoll cvery where in the Bays on this Shore the Water runs with the W ind, that is, it runs out with the Land Breeze, and runs in with the Sea Brecze.
N. B. In the middle of the Bay of Honda there is a finall Illand uninhabited; in which there is a little Well, where (if the Spaniards refufe you Watering, you may at any time get 2 or 3 Tun of good Water, whethet they will or no; and when the Well is cmpty, it will fill again with the next Flood. N. B. A W.N.W. Moon makes full Sea in this Bay.
To know the Entrance into this Bay, obferve, when you are off at Sea, and can bring the high Hill with a Saddle on it, to bear S.W. from you, then you are right with the Entrance into the Bay.
W. from this Bay 5 Ls, lics the Rio de Porcas, or River of Hogs; between them is St. Lucia, but neither of any note, only thar Ships put in there for Water, and to kill Swine, Efc.
W. from Rio de 'Porcas the Coaft rras on (as before) to Cape Bonaviffa, which is the utmioft Land of Caba N.W. and points open to the Guipijof Mexico. Thence the Land falls off foutherly to Cape St. Antonio. All this Coaft is cover'd with Rocks and Shoals, and dangerous places; to that the greateft ufe of thefe Capes is for directing Sailore in making this Ifland from other Parts, as we thall tee pretently, in deficribing the Courfes of the Gulph of Mexico, and the Bay of Camprachy.

This Cape Bonavifa is low, coverd with Trees and Bufles pointing out S.W. toivards Cape Catocha on the Coaft of rutcatan. From this Cape fouthward to Cape Corientes, the Shore is lefs dangerous and foul, than it is $\mathbf{N}$ and E . to Rio de Porcas.

Cape Corientes lies 10 Ls from Cape St. Antiony, S.E. nothing of note between. This is alfo a low Cape, and cover'd with Trees, but no Harbours this way till you come to the Ifle of 'Pines; it is fair on the S. fide of Cuba, dift. from Cape Corientes 20 Ls, the Shore between very foul and rocky; the Ifland ftrecthes out E. and W. i6 Ls, and lies from the Main of Cuba 6 Ls , all the Space berween full of Rocks and Illands unpaffable. Ships come to this Inland chiefly to kill Cows and Bulls for their Hides, or elic for frefl Water.
All the Coaft of Cuba on this fide is thus cover'd with Illands and Rocks, and is fuch a dangerous Shore, thar no Pilots inave thought it worth a Survey : There are fome deep Bays, and fome Rivers ; but all is fo blockt up with Rocks, Shoals, Sands and Iflands, fome under W:ater, and fome above, that no sailors vifit them, unlefs by Storms and Tempefts to their Deftruction.

Here runs out a great part of the main Ifland far into the Sea to Cape Cruis, lying from a Rever called St. Yulian, due S. dift. 33 Ls , and from the 1 fle of Pines S.W. Wefterly 7 , Ls: All betwecn may be called an unknown, or at leaft an impracticable Coaft.

From this Cabo de Cruiz the Sl:ore appears fairer, clear of' Rocks trendingaway E. by N. to Cape Mayzo, the E. Point,


#### Abstract

Havanua. This is a fam'd place for hhipping, the Harbour is dpacious and the molt convenient in the whole Illand; the Entrance is narrow, being between the Sands which lie off of the Points, no broader than that 2 or 3 large Snips may fail in abrealt of one another; but after you are in, there is Water and breadth enough for a Royal Navy: The Fair Way in is MidChannel, a finall Shoal lying off cither Point; the Encrance is due S. in, and when in, a hundred Ships may lie in the foft Ouze without Anchor or Cable ; you need no Pilot to go in, nor any Directions when you are in ; for keep the Fair IVay in as above, and whei you are in go where you will; if you sun a-ground you will get off again, unlefs you run on juft at high Water Mark, and on perpole for Milchief: The Fortifications and City are already deferibed, to which 1 refer. W. from the Havanna lies the Port of Cavanos, being a fine open Bay with 4 to 5 Fa . in the Entrance; and 8 to 9 Fa . when entred; it is a large Bay, and runs fo far in, that 'tis able to reccive the largeft Fleet of Ships that ever ufes thofe Scas. There are leveral fmall places between this and the Havanna, and with good Anchoring, but of no importance, when fo many famous Bays and Roads are at hand. W. from the B.y of Cazanos \& Ls lies the great Bay of Honda, or 7)eep Bay, a large wide Bay, the beft in the Ifland except the Havanna, and not inferior to that, only not fortify'd.

The Mouth of the Bay gocs in S. and N. As on either Point at the Havann i, there lies a Shoal of Sand, fo on either Point of this Bay lies a Ledge of Rocks; to that the Fair Way in, is Mid-Channel, as it is at the Havanna, and the Rocks lie above Warcr, and are fo ftecp, you may go within a Coit's Caft of the Pitch of them, without the leaft Danger, efpecially that on the W. fide: This Riff ftretches off S. and S. by W. a good Musket Shot from the Point. Inthe Entrance on that fide you will have 4 to 5 Fa. clole by the Rocks, as above.


## Sailing Directions for the Coafts of Jamaica, and for

 especially to the Weftern Parts, and

Amaica lics due S. from the E. Part of Cuba, ftretching out duc E. and W. ${ }_{45}$ Ls in length, and in breadth N. and S. about 18 Ls; excepting one Place called Portlund Point, which runs out to far into the Sea fouthward, as to make its breadth in that Place above 20 L.s: it is firuate in Lat. from ${ }_{17} \mathrm{~d} .45 \mathrm{~m}$. to 18 d .35 m . tho fome make it not fo much.

The N. and W. Coant, which is called the back of the Illand, las many Sands and Shoals lying from the Land, which make it flat off; and Ships of Burden do not come in, except at certain places, where there are Channcls and Deeps proper for them. Bur the chicf and beft Harbour in the Ifland, and which abuudantly lupplics for other Deficicucies, is that of Port Reyal, lying on the S. fide of the ealtermoft part of the 1lland.

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 Ifland exfortify'd. on either , on cither Fair Way Rocks lic a a Coit's efpecially - by W. a e on that above.thing of note betwecn. This is allo a low Cape, and cover'd with Trees, but no Harbours this way till you come to the Inc of 'Pines ; it is fair on the S. fide of Cuba, dift. from Cape Corientes 20 Ls, the Shore between very foul and rocky; the Ifland ftretches out E. and W. 16 Ls, and lies from the Main of Cuba 6 Ls , all the Space between full of Rocks and Illands unpaffable. Ships come to this Inland chiefly to kill Cows and Bulls for their Hides, or elfe for frefl Water.

All the Coaft of Cuba on this fide is thus cover'd with mlands and Rocks, and is fuch a dangerous Shore, that no Pilots have thought it worth a Survey : There are lome deep Bays, and fome Rivers; but all is fo blockt up with Rocks, Shoals, Sands and Iflands, fome under Water, and fome above, that no Sailors vifit them, unlels by Storms and Tempefts to their Dcftruction.

Here runs out a great part of the main Inland far into the Sea to Cape Cruis, lying from a River called St. fulian, due S. dift. 33 Ls , and from the Ifle of Pines S.W. wefterly ${ }_{7,} \mathrm{Ls}$ : All berween may be called an unknown, or at leaft an imprac. ticable Coaft.

From this Cabo de Cruiz the Shore appears fairer, clear of Rocks, trending away E. by N. to Cape Mayzo, the E. Point, where we began the Account of Cuba. Cape Cruiz is very high Land, and fteep on the fide next the Sea: there is a great Shoal runs from it far into the Sea S. which you mult take care of. Between this and Cape May:zo on the Coaft, as above, lic feveral fmall Ports, but only two of note, viz. Porta Portilla, and Civitta Veech: they are both very convenient Harbours, and well fhelter'd, but little frequented; they have in the Entrance of either of them $3^{\text {to }} 4 \mathrm{Fa}$. The other are Point Matbanon, Porta de Palina, Porto Efcondido, Bay of Tej query, and feveral others; in moft of which there is good Anchoring and Shelter for Ships, but no Shipping to make ule of them.

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 in breadth lace called to the Sea ace above 55 m . thohe Illand, ich make or at cerroper for and, and sthat of art of the

It is true, our Pilot-Books fatisfy themfelves with defcribing this one Port, as if it was fufficient to anfwer the End for the whole Inand; the Trade as it were all centring in that Part, and on that Account it may be fufficient: but we will touch a little upon the reft, taking things as they lie.
The eaftermoft Point of famaica is Point Morant : From hence you take your Departurc, if you are bound thro' the Windward Paffage, or to any of the W. parts of Hifpantiola. On the N. fide of the Point is a Harbour bearing the fame Name, to go into which you fail N. by W. leaving the whire Cliffs under the yellow Hills on the Larboard fide, 3 Ls to the N.N.W. the Channcl is narrow, and requires nice ftecring. There is a low Point runs off caftward; on the W. fide the Land is high and mountainous. Herc is a finall River of good frefl Water comes in from a Rock in the W'. part of the Come
try, and is never quite dry ; tis called the Rivo Sitatare, and is very uleful to Ships to take in Water, which is otherwite fearce cnough.

From this Point the Land gocs away S. about a $L$ and balf, and then falls away to the W. to Little Sandy Bay. There is a Flat upon this Shore from Mcrant Point to at. Thomas's, which is a decp Bay rmming $N$. into the Land about a Lup: The E. Point of this Bay is called Linch Fort, under which there is good anchoring in $S$ Fand an the Bay is the fancin 5 and; $f$.

IW. from the Eatrance of this Bay lic two fimall Shoals E. and W. from one another : the Paflage between them is good, anc' is called the Sarama (\%anel; due W. from which, dift.; Ls, lies Saltpond Point, beng the wellermoft Point of the Fhbete Reve. There are feveral of thede little Crecks on this Shore, to which they give the Name of River, tho nonc of them merit it; and molt of them are dry except in the rainy Scaton.
W. by N. from salt pont Point lics Port Royal: Between then lics a Bay which goes in duc N. called Long Bay, and in that Bay is another called Rinll Bay, and a Point of Land called P'umb' Point. The W. Shore of this Bay is the narrow Ithmus, which makes the E. fide of Pont Roval Bay; and on the S. Point of which, before the great Eartiguake deftroyed it, flood the Town of Port Royal.

Some of our Chats call all that Bay, which fpreads it felf from within Pelican Point, by the Name of l'ort Royal Harbour: But others, and with more juftice, deferibe the Harbour to be only that leffer Bay which lies between Port Royal and Mujateto Point, lying in E. and the two Points bearing N. and $S$. from one another.

To come into this Harbour from the caftward, you mut fuit make Phand Point; then thooting to the weltward of the Point, kecp the Main on board, fo you will go within all the fandy Cays which lie in the Offing: keep in the Mid-Channel in 10 to 14 Fa. till you come abreaft of the Point of the Town, or rather where the Town once ftood: Then run in E. and pals the Channcl between the Cays and the Shore, giving them a Birth of ; Chand over: Bring Saltpond Point to bear W by N. over your Stern, you will then be againft the Middle of the Town of l'or: Royal: Then go on W. round the Point of Fort Romlabout a Cable's length off of the Fort, Icaving it on the Starboard fide, and anchor in the Harbour, where you will
have g Fa . Land abov 'Plumb'''oi

The oth ought rathe P'oint on t bear S.E. an shoals on Point ; but necd no D called l'a!l
N. B. ' bour, are ca are th ralotl
S.W. fro hult W. to then lics $W$ ilarbour. to this Old are good C der tome of t.ake the
$O_{11}$ the S. from th S.E. Wind about 12 I lying E. a farther we W. other : thede lic to Por tland thole lics of the Itia There the Ifland Mouth of cafion: $T$ Royal; a cult than t for that $p$

## Sailing Direitions for going from Port Royal for Engl: the Gulph of Florida, and the W indward Paffag



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## from Port Royal to England.

f, and have ${ }^{9}$ Fa. the Fort being E. over, and with the high Point of crwitic
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Lup: hethere id $\ddagger$ oals E . ; good, dilt. $;$ of the on this rone of c rainy
ctwecn and in and calnarrow and on :Atroycd
is it felf al HarHarbour oral and N . and ou mult dof the na ll the Chamel Town. E. and og them bear W ddle of Point of ng it on you will Land above Tallow P'oint, the S'alt Y'oint Hill W. by N. and 'Phmb 'Point E.N.E.

The other part, which fome call Thort Royal Harbuar, but ought rather to be called the Bay, lies in N. Ieaving Alufquito Point on the Larboard fide: Thar Point and Peclican Woint bear S.E. and N.W. from one another. There are feveral large Shoals on the S.E. Fide of the Bay, and off of the Alufquito Poisht ; but as they are not in the Fair Hay into the Bay, they need no Deleripton. On the W. fide of it lies a fimall Fore called l'alfage.
N. B. The little Sands and Rocks which lie off of this Harbour, as it is allo on the Coaft of Cuba and other Places, are calld Cays, lich as thofe before PPort Royal, which are the Eaflermoll Cay, Bullh Caly, Sandy Cays, and feveral others. N. B. Our Pcople ignorantly call then Kegs.
S.W. from Pelican Point the Shore goes away S. by W. half W. to Riple's's Shoals, which lie off from the Point, and then lics W. to Cabuarito Point, being the E. Point of the Old ilarbour. There are abundance of ilands in the Entrance into this Oht Harbour: But to thofe that are acquainted, there are sood Channels betw cen them all, and very late ridine under tome of them, in 6 to \& Fa. But for Strangers they fhould t.ake the help of Pilots.

On the W. fide therc is good anchoring in Rigg's Bay, and S. from that in If eft Harbour ; but both lic open to S. and S.E. Winds. S. from this Harbour lics 'Portland P'Point, and about 12 Ls from thence lic Pedro Shoals, which are Sands lying E. and W. 15 L.s in length. Then tollow other Shoals farther weltward ${ }_{25}$ Ls, call’d Saromilly; and from thence fill W. other Shoals, with Rocks about them, call'd Sanillat All thece lic to the W. along the S. Offing of the Coaft between 'Portland 'Point and the Lattle Camines: The fartheft of thofe lics beyond Point Negril, which is the weftermof Point of the Ifland.

There are fome good Roads farther toward the W. cud of the [lland, as at Bluctield B'al, Hudfon's Holc, and ar the Mouth of the Ruver Caburito ; but theic are only uled on Occafion: The main Center and Port for Bufinels is at Port Royal; and the going from thence being to much more difficult than the comng to it, 'tis necdiful to give fome Dircctions for that part.

## Royal for England, thio' the two Grand Cour fes, viz. dward Paffage by the Bahama Iflands to Exuma.

rd Paf

If you are bound to $P$ Providence from the Continent of $A$ merica, your funct way is to make the Ifland of Illuthera, whote Wefting is about 30 Ls from the Capes of Virginia; codeavourng to fall in with Illuthera in the Lat. of about 25 d .25 m . N. which will bring you about 9 L.s from the W. Point of Illuthera. The Land beceabouts is, wery remark whe
the Itla Mouth cafion: Royal; cule than for that

# Suiling Direitions for going from Port Royal for Ens the Gulph of Florida, and the W indward Paffa 



O UR beft way in faiing thro' the Windward Paf. fige, is to get the W. part of the Coaft of $M i / p a-$ mivla on board, as foon as you can, and for which the Rule is gencral, and known to all our $\| e / t-1 /-$ dia Sailors. There you will never mits of a windward Current, the Sercam always fetting to the N. as it docs in the Gulph of florida, and in the Evening a Wind off Shore: But if you ftand for Cuba, and cannot fetch within 7 ors Ls of Cape Mayzo, you will find a very ftrong Current indeed, but will have little favour from the Wind; and when by thete Directions you are come up with Cape $\lambda$ May $\approx 0$, having it W. off from you, your Courle is N. half W. 37 Ls; which will bring you fair in with the W. end of the Crooked I/fand. Stecring that Courfic you need not fear the Hos-fies, for you will pals to the weftward of them, at the diftance of 10 to 12 Ls.

From the W. and of Cronked Ifland your Courle is N . about Is Ls. which will give you the length of C'rooked Ifland; and from thence fteer away N. and that will carry you to Sca, clear of all danger: But if you are bound to Exuma, you muft direct your Courle fions the N. cnd of Crooked Ifland to RumAcy; your Come thither is N.W. half N. dift. about $; 0$ Ls. From thence direct your Courfe for Long Ifland, which is W. a little foutherly, (a N.W. Courfe carrics you clear of it:) About 6 Ls from the N.E. and of Lons Illand. to the Keys betoretice Salt Iond at Exama, the Courte is W. half S, the dift.about $S$ Ls. If you are bound from Exuma to Procidence, you mult make your way for the Ship Cbannel, which hes between Cat Iflayd and Illuthera: Your Courfe from Exama thither is N N.W. dift. $2=$ Ls; and to you may proceed to the N. weftward along the Ifand Illutbera: But the nearent Cut from the Exuma is over the Grand Babama Bank; to go thas way your Courfe is W.N.W. or rather N.W. by $\operatorname{VW}$. about $4^{\circ} \mathrm{Ls}$, which will bring you to the Edge of the Bank. From hence you may pals over the Bank in 2 and $2:$ Fa. and in fome Holes you will find; Fa. Youmult keep a good lookout upon the Bank, for fear of the funken Shoals, which lie in fome places very thick; they are cafily teen betore you come at them, the Watcr being very clear, and they flecp too. In anchoring here in the Night choote a good landy Birth. The diftance from one Edge to the other thwart the Bank is but about ic ls in that place.

If yo merica, wholi endeavo 25 d .2 Yoint o and caly Sand.hi Ship's 1 Blafler will ice broken lage tho here:) lecanll Harboul Vellels, Watcr. Rocks, vifible, thence Allo yo Shore a Rocks

Abo
which
Courlic gencral not wo $\mathrm{O}_{\mathrm{n}} \mathrm{a} \mathrm{H}$ fice is Shore bour ; W. Po will $p r$ Ebb, care to laid $/ 1$ Callle, ing ab the C.
ing them bear W fiddle of Point of ving it on c you will
the Ithand, as at Bluctich Bat!, Hudfin's Hole, and at the Mowth of the Ruver Cibarito ; but thefe are only ufed on Occafion: The main Center and Port for Bufucts is at \%ort Royal; and the going from thence being to much more difficult than the comug to it, 'tis necdful to give fome Dircetions for that pirst.

## Royal for England, thro' the two Grand Courfes, viz.

 indward Paffage by the Bahama Iflands to Exuma. air in with yourfc you cwoftwardis N . about Mand ; and , Sca, clcar you muft ad to Rumbout ; Ls. yich is $W$. a ar of it:) the keys half S. the to SProcincl, which ourfic from 1 may proa: But the ;ama Bank; N.W. by $\$ \mathrm{~V}$. f the Bank. $2:$ Fa. and a good looks, which lie before you y flcep too. Birth. The Bank is but

If you are bound to $P$ Providence from the Continent of $A$ merici, your fureft way is to make the Ifland of Illuthera, whole Wefting is about 30 Ls from the Capes of Virginia, endeavourng to fall in with lllathera in the Lat. of about 25 d .25 m . N. which will bring you about 9 I.s from the W. l'oint of Illutbera. The Land hereabouts is very remarkable and eafy to be known ; it having two white Spots, Cliffs, or Sand-hills on ir, they bcing upon the higheft Land, a large Slip's lengeth from cach other ; they are c.illd the North-H"yt Bheffers. Alto ; LS N.W. by W. of then, along Shore, you will see a Hill refembling a 'Dutchman's Thrun.Cap, with broken Land near ir, and a Cut or Gap as if there was a Pallage thro', callid the Cow and Bull (the Ifland is very narrow here :) from thence flece N.W. by W. about ${ }_{4}$ Ls, and you will fec an Ifland with feveral fimall Cays to the northward, it is calld d Harbour Ifland, with a Paflage in, at the S. end of it, for fimall Veffels, having a finc clear fandy Bay, with curious green Water. At the N. cud of the aforetaid Caysethere is a Ledge of Rocks, lying about 2 Miles off, which by day-light is very vifible, and which you mult be very careful to thin. From thence your Courle is W. and W. by S. about the Land = I.s. Alfo you will find another I.cdyc of Rocks, which lics from the Shore a large I., wheh altio is vifible: You may fice thete Rocks under you in 15 Fa . if you borrow near to them.

About $\rho$ Miles from thence W.S W. half S. lies another I.edice, which is at leaft 5 . Niles from the Shore: From thence your Courfe to Prozidence is S.W. about ${ }_{1+}$ L.s. The Stream here generally fets to Lecward. If you kecp up S.W. by S. you cannot well pals by it, withour liecing the Houfes on the Shore. On a Hill near the Town flands the Church: You may plamly fec it 4 l.s off; ftand in with it, within a Mile and half of the Shore : Then you may fee Hog I/land, which makes the Harbour ; bear down along by it, till you come clote a-board the W. Point : then luff in within a Cable's lenget of it, and you will precently come into + Fa. Water: If it is with the Tide of Ebb, you muft anchor; if Flood, you may turn up, taking care to thun a Ruff of Sand, which comes away from the atoretaid Hog I/lamd, and ftretches clear up the Harbour above the Caflle, half a Mile: The Channel hes nearett the Cattic, being about two Cables lengeth broad. You may anchor above the Cafte in 3 Fa at low Water, hady Gemad.

## Sailing Direitions from Jamaica to

It you are bound for Providence, thro' the Gulph, you mult take case of Beryy Iflands to weather them; they lic from Y'seidence NNW dift. 18 Ls. From Berry Ifland to the babama !/land on the leffer Bank, the Courfe is N.W. by N. ditt. ; 3 Ls, ftecring about 7 Ls to the eaftward of the W. end of the grand Bank.

If you are at the W. end of Grand Babama ftecr away N.W. about 8 or 9 I.s, then you may ftecr N.N.W. directly for the lland of Providacuce.

Some gencral Directions for failing from Jamaica thro' the Gulph of Florida.

Notc, ${ }^{\top}$ Hat upon the Full and Change, the Current fets fo ftrong to the northward between the Leeward I/lands and $\%$ amazca, that the Allowance of 5 per Cent. is but lufficient : From 'Port Royal Harbour to Portland Point the Courle is S W. about 10 Ls. Give this Point a Birth, and then ftecr to the W. end of the Inand of Famaica; your Courle thither is about W. by N. 26 Ls. This W. end of "Famaica is pretty low Land.

Note alfo, That all along from Port Royal to Point Negril, within ${ }_{4}$ Ls of the Shore, you have from 16 to 20 Fa. From hence direct your Courle for the Grand Camaines, which lies from the W. Point of "famaica W.N.W. about 46 or 47 Ls. The Grand Camaines is a large Ifland, low and Imooth Land, with Trees on the top: The Shore is bold, there is good anchoring on the Bay on the N. fide, as alfo at the W. end of the Inland. E.N.E. about 20 Ls from the Grand Camaines, lies two other Iflands, the one call'd Little Camaines, and the other, which is the weftermoft, the Camin Brack. Thefe Iflands, as allo the Grand Camaines, are much frequented by the People of 'famaica for catching Turtle, with which thele Iflands are well ftored. From the Grand Camaines it is ufual for Ships to direct their Courfe for the lland of TPines, endeavouring to fall fomething to the weftward : in doing of which be fure to haul wefterly enough, at leaft a Point of the Compals more wefterly than the Charts lay it down, by reafon of the Current that lets ftrong to the northward out of the Bay of Honduras, which if you thould not take notice of will fer you upon the Fardains, which are very dangerous Shoals and Rocks. From hence dircct your Courfe for Cape Corientes, your Courle thither being W. about 18 Ls. Cape Corientes is low fmooth Land, with Trecs on the top, as is all the W. end of Cuba on both fides, for many Ls to the windward, having not any notable Hill, Vallies, or Hummocks; and therefore 'ris very hard, if not impoffible, to diftinguilh one part from the other. From Cape Corientes fteer away W.N.W. about ${ }_{15}$ Ls, which will carry you about 5 Ls to the weftward of Cape St. Anthony, or as the Spaniards call'd it St. Antonio, and clear of the Shoal of Cape Antonio alfo. This Shoal runs along the Shore both to the fouthward and northward, but is
not very dan three round 1 : near about it. ward of Ciap, you are come may venture Caba Shore it value; and be leaft as far as Offing of 100 till you oped bears from yc Ls: Then go in which Cou Foot to be yc great force. you may be Winds gener find it very di

For the Dis the W. end of that when th Offing of 51 of the Shoals when, I fay, Shoals call'd

The Callo, the Sca at th: and others lic Breach of th Bring the Cuba a-breaf S.E. by E. at does to the e : gefted that th all along the into the Har fhew it, or $t$ muft be clofe but we fee n cation with $t$

If you ar apprehenfive going, for th you may c: will find fro ${ }_{12} \mathrm{Fa}$. clcan way E.N.E. Or if youw N.W. by W. titude that
Lead allo as
you from the y N and
not very dangerous. This Cape may be known by two or three round large black Look-out Houlcs on the Shore-fide, or near about it. From the atorelaid diftance of $s$ Ls to the weftward of Ciape AntJony, ftecr away N. or N. by E. And atter you are come about 20 or 25 Ls from Cape St. Authony, you may venture to fland away E. or E. by S. ranging along the Cuba Shore if you can, till you come the Height of the Havana; and be fiure not to put over for the Gulph, till you are at Icaft as far as the Haviana. Then fuppofing you to be in aia Offiug of 10 or 15 L.s from the Shore, fteer away N.E. by N. till you open the Gulph, and till the Grand Baldana Bank bears from you due E. at the mean diftance of about 12 to 15 Ls: Then go fair with the Gulph due N. or at moft N. by E. in which Courle you will be fure to have the Current under Foot to be your Guide, which fets right up the Gulph $N$. with great force. If you fhould offer to put for the Gulph fooner, you may be pur to the wettward of Cape Florida: And as the Winds gencrally blow there from the N. and N.E. you may find it very difficult to recover the Mouth of the Gulph.
For the Direction of all thote who have Occafion to fiil by the W. end of the Ifle of Citb a, it is needtial to inform then, that when they are a-breaft of Cipe Sto Aluthony, Luppofe at an Offing of 5 I.s, which it is ordinary to give the Cape, becaule of the Shoals upon the Coaft of the Inland along the W. cud ; when, I fay, you are 4 to 5 Ls a-brealt of the Cape, the Shoals call'd the Callorectoes lic about is Ls N.E. by N.

The Calloredoes are very dangerous Sands, which lic off in the Sca at that diftance : Some of them are dry ar low Water, and others lic in 2 and 3 fa. yet you will fec no Rippling or Breach of the Sca upon then.
Bring the firft Hummock, or high Land on the W. end of Cuba a-brcaft of you, duc E. or E. by S. and the low Land S.E. by E. and you may be fure you are clear of the Colioredoes to the caftward and N.caltward of them. Some have fuisgefted that thefe Shoals thrult out a Tail of Sand, which runs all along the N. and N.W. fide of Cuba as far as rhe Entrance into the Havana ; but they have no Soundings upon them to thew it, or to direct where to find them: So that if it is fo it muft be clofe under Shore, where fometimes we find ir flat; but we fee no reafon to think thofe Flats have any Communication with thefc Sands, which lie fo far off.
If you are off of Cape St. Authony in a N.E. Courfe, and apprehenfive of coming upon the Colloredoes, keep your Lead going, for there is very good gradual Shoalings upon them, and you may eafily perceive when you are near them; for you will find from 25 to 15 Fa. excellent fticking Ouze; then to 12 Fa. clean Sand; and then ftand no nearer W. but fiecr away E.N.E. as above, till you are clear of Cape Boalazilth : Or if you would go without the Colloredoes, your Couric is N.W. by W. from St. Antorio, till you are fure by your Latitude that you are to the weftward of them, keeping your Lead alfo as long as you are in the Soundings of the shoais. more wefterly than the Charts lay it down, by reaton of the Current that lets flrong to the northward out of the Bay of Hondurar, which if you fhould not take notice of will fer you upon the fardains, which are very dangerous Shoals and Rocks. From hence direct your Couric for Cape Corientes, your Courfe thither being W. about 18 Ls. Cape Corientes is low fmooth Land, with Trees on the top, as is all the W. end of Cuba on both fides, for many Ls to the windward, having uot any notable Hill, Vallics, or Hummocks; and therefore'tis very hard, if not impoffible, to diftinguilh one part from the other. From Cape Corientes fteer away W.N.W. about ${ }^{15}$ Ls, which will carry you about 5 Ls to the weftward of Cape St. Ant Jony, or as the Spaniards call'd it St. Antonio, and clear of the Shoal of Cape Antonio alfo. This Shoal runs along the Shore both to the fouthward aud northward, but is

## Sailing 'Directions from Jamaica to the Bay of M peachy, and the Gulph of Honduras, and



R OM Cape Florida to la Vera Cruz, and the Illand of St. Folnn d'Wha, we have little Navigation along the Shore, and confequently no Survey of the Coalt, but thall give the bett Account of it we can.
The Conmerce that way feems to be cut off by the Agrecment of the Nations inhabiting the Coaft ; there being no Communication between the Nations of Europe and the Pcople of thete Countrics.

The Navigation to the Gulplj of Mexico, and the Shores S. of that Gulph, is cither by the Spaniart's from Europe, and carricd on by the way of the Havana and the W. Point of Culua, or by the Englifb from Famaica: Both are much the fame, fecing the Euglifh from ${ }^{\prime}$ Gamaica muft pass in fight of Corientes on the W. cnd of Cuba, in their Paffage to la Vera C.ruz, and the Spaniards mult come from the next Cape, that is, St. Autonio S. which is much the fame.

Being bound from ${ }^{\circ}$ amaica to la Vera Cruz, take the former Dircction as far as Cape Corientes, as if you were failing to the Giulph of Florida: But as foon as you make Cape Corientes, or at leaft are a breaft of the Cape; go away W. by S. for Cape Catoche, which is the firlt Land you make on the Continent, being the N.E. Point of Yucatan, dift. 44 Ls. Between rhefe two Capes the Current fets always flrong to the E. cfpecially upon the Full and Change of the Moon ; and this is the Reation of directing you to kecp fo much to the northward.

When you are fhot over to the Bank of Cape Cateche, you will have gradual Soundings home to the Shore all along the Bank, fo that you may Coaft it in 5 Fa. or haul off, and then procced in 7 to 8 Fa. or more. The ordinary Courfe is to keep off, and go along the Bank in it Fa. keeping that depth till you conc to Cape Condecedo, which is from Cape Catoctoe
or tre Compars reaton of the of the Bay of of will let you ous Shoals and Cape Coricutes, ape Coricutes is sall the W. end windward, hacks; and therenguilh one part away W.N.W. ato the weftward 1 it St. Autonio, This Shoal runs prthward, but is

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## o the Bay of Mexico, and from thence to the Bay of CamIonduras, and to Porto Belo, and Cartagena excluyive.

Cruz, and the little Navigation ho Survey of the of it we can. If by the Agrecthere being no ope and the Peo-
and the Shores rom Europe, and the W. Point of Both are much muft pafs in fight Paffage to la Vethe next Cape, e.
, take the former vere failing to the : Cape Corientes, ay W. by S. for ke on the Conti44 Ls. Between Ig to the E. efpea ; and this is the he northward. 'ape Catocbe, you re all along the ml off, and then Courle is to keep $g$ that depth till om Cape Catuche

90 Ls. You mult be fure not to go without ${ }_{1}+\mathrm{Fa}$. for in ${ }_{17}$ Fa. you will be in danger of the Rocks call'd the Alcrane's where you have the very depth of 17 to 18 Fa. at one Call, and betore you can heave again run faft on Shore.

There are other Shoals call'd the Sifals, which lie nearer the Shore: if you would avoid them in this Courfe, cither kec! in 7 Fa . which carrics you within them, as before, or in 12 to 14 Fa. which carrics you clear without them, and fairly within the Alcrancs alfo.

Thus if you excced 7 Fa. you fall on the Sifals in 9 Fa. If you exceed 17 Fa . you tall on the Alcranes; and if you exceed ${ }_{19}$ Fa. you fall immediately into 25 Fa . and fo will run upon the Triangles; for you will have from 19 Fa. at one Calt to ${ }_{25}$ Fa. and at the next Caft be a-lhore upon the Triangles, or the Alcrantes, for there is no lefs depth clofe to them.

From Cape Catoclse to Cape Condecedo 'tis all low Land, and the Coaft lics to on to Trieft; 'tis fo low, that you can but juft fee it in ; Fa.

From Triefl to la Vera Cruz your Courfe is S.IV. by W. hale
 Cru $\approx$ is almoft 200 Ls. This laft ftretch is cr . is th .... it im, of Campcachy. ThisCourfe brings you to a $\Gamma_{i \prime}$ high Mountain call'd St. Martin, which may bi.
at Sca. Off from under this high Pico, or 1 . a! ! Inand call'd Partido. Hence ftecr N.W. by W. to gu without the Cabefles : if it be by night, come no nearer thin 35 to ${ }_{37}$ Fa. for in ${ }_{2}$ Fa. to 33 , you will feclthe Current ferning finrioully on upon them within a $L$ of them.

From hence to the Entrance into Vora Cruz, the Courfe is S.W. by S. and S W. to the Ifle of Branco: Kcep the lfland on your Starboard-fide, and with the fame Courle run in for the

Man, where you will find about 7 Fa . Then you will fee $s$. Yobn iclut, dift about 3 Miles and half. and may have a Puot tor the Place But to godirectly to / CraCuz, laveall thofe Shoals which lic E. of "St. Yotn, on your Larboard-fide ; and kecpury in ${ }_{17} 7$ Fa ar Icalt, luff round the Galligo Sand, and go on that way to the Road, where you may moor your Ships under the Cattic Wall in 5 Fa good (iromend.
A. B. Vera Cim: is m Lat. ig d. 30 m .

Lo

ㅅ. $B$. Here the Current iets very violently to the $N$.as high as $1 . a r . z 7$ d. along Shore; and then rounding the Bay, runs to the caltward to the Grith of Foridin, as is haid above.
Cete Catocle on the S. and Cape Fitoriaz on the N. make the Ciutph of Mexics: The firft lics in Lat. 21 d. 15 m . and the later in $2+4.45 \mathrm{~m}$
We have already directed the Courle from this Cape to $V$ asteraz ia the Gulph; but tis necelfary to take fome notice of the Cost of the Contmentalio.

Juft oppofite to Cape Cutoche E.N.E. dift. 3 Ls, lics a frimall Indind called by our Sailors Logeerbeads hey; for Key, or Cay, in thele Parts of the World fignifics ordinarily an Illand, or Rock above Warcr, as we have ofecn obfiery'd, as 'I'tlo, or Pou'o, docs on the Coaft of Siam and Cloina. Our Scamen, ets fuppoted, call it to, becaute of a kind of Tortoifes, or Turthe, they wivaliy kill there, which they call Logger bead Th: th; what the spaniaris call it we know not.

The Cape it felf allo is in an Ifland, a fimall Channel reming between ir, and the Main ; you may pafs frecly th:o the Channcl between Lozgei bead liland and the Cape, but not in that heween the Pome and the Main. The Cape if felf is low, but riles as you look farther up the Country: 'Tis cover'd with Teces of fercral forts, but elpecially Logweod Trecs; tho tholencareft the Sca are cut down, and the Logwood has been carty'd of by the Entioflo Logwood Cutters many years ago.

From Cape Catoche the Courle is neareft due W. along the N. Coaft of Yucatan to Cape Condecedo, dift. So Lss, accordung to tome, 90 Ls according to others. The Shore is very plain and Ievel, without any high mountainous Lands, or any: Bays or Capes confiderable.

The firt place of note W. of the Cape is called the Monnt, dift. It Ls: and 'ris the more remarkable, becaufe, as I have land, there is no other high I and thercabouts; and this Mount is not a natural. but an artificial Hill ; for what puspote, or by whom made, is not our bufinctis.

Here are alfo large Cifterns for holding Raia Water, for there are no Springs, nor any ficth Water to be had; but as there are no Peopic there now, thofe Cifterns are of no ufe.

Here Ships come to lade, not Salt but the Earth, which they carry away, and make Salt out of it, and Gunpowder ; to that it thould feem to be a kind of Salt-Petre.

Upon all this Coaft you fec feveral finall Spots of Mangrove Tress, which look like Iflands, and you muft be caurious that you are not deceived, and take them for Inands: for when you come nearer, you will difcover it to be all joinced to the Continent.

## Aions from Jamaica to Cartagena.

you will fec dmay have a Cruz, Icave all Larboard-fide ; llago Sa:d. and roor your Ship
the N. as high ding the Bay, wid., as is laid
the N. make at. 21 d .15 m .
is Cape to $F^{\circ}$ ce fome notice

Ls, lics a frall ; for Kicy, or arily an Illund, 'd, as 1 'ulo, or

Our Scamen, toifes, or Turloggerbad Ti: :
hannd remning frecly th:o' the pe, but not in pe it felf is low, y: 'Tis cover'd od Trecs ; tho gwood has been any y cars ago. duc W. along dift. So Ls, ac-

The Shore is inous Lands, or
led the Monnt, aufe, as I have and this Mount t puspoic, or by

Water, for there but as there are ufc.
Earth, which Gunpowder ;
ts of Mangrove ec cautious that : for when you ad to the Conti-

Look-out to Cape Condected is about 8 Ls; and duc $\mathbf{N}$. from the Cape, dift. 20 L.s off at Sca, he the Illands called I/le's des Aromas, of which 1 have taken notice in the lailing Coutic from "famaica to Vera Cruz. The Coaft is all a landy Strand, with tome Mangrove Land, and fome Savannais, (that is open Plains, or Grals Ground.) The Country within they tell us is inhabited, but upon the Coaft there are few Pcople, and none that continue there.

The Sea decpens here gradually from the Shore, and Ships may anchor in good lindy Grovend in any Depth from 7 or $S$ Foot to 10 or 12 Fa. Nay, in fome places on this Coatt, the Scamen calculate their Diftance from the Shore by the depth of Watce they are in, and to mealiure the Offing by the Lead, allowing + Fa. for the firt L, and for every Fa. afterward a L more: So that if they had to Fa. Water, they mult be $1 ;$ Ls from the Shore, that is, 4 Fa . for $\mathrm{I}_{\mathrm{L}} \mathrm{L}$, and 9 Fa . for 9 Ls morc.

This Cape Condecedo is the eaftermoft Point of the great Bay of Campeachy, a Place renderd famous by the many Adventures of the moft detperate fort of Deople in the World, namely, the $W^{\prime} / f$ Indi: Privateces, Bucc.mecrs, or Irce-booters; Who for many Ages made this Ilace their Rendeavous, on pretence of curting Logwood.

The Bay of Campeachy is a decp Culph of the Sca, bearing in upon the Land, in fome places more, in fome lets, full of Inlets, Lagunas, Rivers, and tome of them large and navigaLic, with leveral Iflands, Harbours, and good Roads, with Shelter for Siapping of any fize. The Extent of the Bay is from Ciape Conducido E. to a Point which hoots our from the Highland of St. Martias W. dift. from the two Points $1=0$ L.s.

Co ake it mperes a little, from Cape Condacion to the balinas is 15 Ls, the Courle due S. bearing into the hollow of the Bay: ' 'tis all a hard fair Strand, and all the Ground within is dry Sand; yot even here, digging in the Sand a little above high Watcr Mark, you may always find good freth Water, if you dy not above + to 5 foot.

The Salinars is a very good Harbour for finall Vcrels, fuch as ute the Salt-Trade; but there is not above 6 to 7 Foot Water in it. The Sale-ponds lie cloie to the Water Edge within the very Harbour, and yicld abundance of Salt.

From the Salinas to the Town of C'ampeachy the Courte is S. by W. dift. about 20 I.s. The firft + Ls upon the Coalt is drowned Mangrozy Land. 14 Ls trom the Salinas towards Campeachy, is a Hill called Hina, under the Lec of which the Buccancers ulually come to an Auchor.

About $=6$ I.s N. from Hina, and 30 from Camperachy, lies off in the Sea a certain Clutter of litunds mentioned before, called the Tiangles, from their Situation. There is nothing to befaid of them, but that there theyare; which when the Sialor knews, tes his bufinets to keep ofl' of them.

From lina to Cimpeatly is 6 LS W. 'tis a tolerable large Ci ty, and a goodbort, and the only Town of note to be feen on the Coaft from Cape Catoche to Vira Cirns, ar leaft that lics open to the Sca. There is a Fort which commands the Fintrance of the Harbour and they that would oo me mate
cording to teme, 90 Ls according to others. The Shore is very plain and Icvel, without any high mountainous Lands, or any Bays or Capes confiderable.

The firf place of note W. of the Cape is called the Mour:', dift. 14 Ls : and 'tis the more remarkable, becaufe, as ! have liid, there is no other high Land thercabouts; and this Mount is not a natural, but an artificial Hill; for what ourpofe, or by whom made, is not our bufinets.

Hereare alfo large Cifterns for holding Rain Water, for there are no Springs, nor any freth Water to be had; but as there are no People there now, thote Cifterns are of no ufe.

Here Ships come to lade, not Salt but the Earth, which they carry away, and make Salt out of it, and Gunpowder ; to that it hould feem to be a kind of Salt-Petre.

Upon all this Conft you fee feveral finall Spots of Mangrove Treces, which look like ! lands, and you muft be cautious that you are not deceiv!!, and take them for Illands: for when you come nearer, you will difcover it to be all joined to the Continent.

Midway between Cape Catorlo and Cape Condecedo is Rio di' lic Gartos; it is to be known by two Groves of high Mangrowe Trecs, one or cach fide : the River is only navigable for fimall Boats, Canocs, an d lich like ; the chief bencfit of it is, that the Water is freth, which is all the freth Water you meet whth from the Cape to within or $_{4}$ Ls of Campeacler. Which is above $1=0$ Ls: fo that it is no wonder the Country is delo. late and without Pcople.

There were formerly fome Spanif?. Fifhermen here. who had fimall Huts on the Coaft, and were ferviceable on occafion to Ships in Diftrefs: But fince the Free-booters and LogwoodCutters have frequented this Coalt, they have fo ofter ufed thele Fithermen cruclly, and carry'd them away too, that they have almoft forliken the Coaft, and thofe few left are very thy of Europeans.
W. from Rio de Gartos there is a L.ook-our, it is a high Building, fomewhat like thofe mention'd fo often on the Coaft of Oh. Spain in the Mediterranean, called Fire-Towers: it was built by the Sfanierds for their Slaves or Indians to watch in for Ships coming upon the Coaft. Some of them, as this in particular, are built of Timber from the Ground; others are like Summer-houfes, or great Cages up in high Trees, big enough for a Man or two to fit down in, and with a Ladder to go up; which Ladder ticy pull up to them when they are Tode'd. There are abundance of them upon this Coaft. This is called Selam; and there is another of the lame, but built up in a Tree about ${ }_{3}$ to 4 Ls farther, called Linchanchece, from an Indan: Town of that Name ${ }_{4}$ Ls within the Country.

The Coaft from Selan to Liuchanchece is full of little Saltponds, the biggeft not above io Yards long, and 6 Yards broad, very regular: and many Ships come hither to load Salt, as aabove. From hence due W. about ${ }_{4}$ Ls is another Look-out called Sifa', the higheft on all the Coalt, which is a good Scamark, and makes at a diltance like a Ship's Sal. From this

## The Shore is

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all of litite Saltd 6 Yards broad, pload Salt, as another Look-out ch is a good ScaSat. From this

The S.ather is a very good Harbour tor finall Veffels, fuch as ule the Salt-Trade; but there is not above 6 to 7 Foot Water $\therefore$ in it. The Salt-ponds lie clote to the Water Edge within the very Harbour, and yicld abundance of Salt.

From the Salinas to the Town of Campeachy the Courfe is S. by W. dift. about 20 Ls. The firlt ${ }_{4}$ Ls upon the Coalt is drowned Mangrozy Land. ${ }_{14}$ Ls from the Salinte towards Canfeachy, is a Hill called Hina, under the Lec of which the Buccancers utually come to an Anchor.

About 26 Ls N. from Hena, and 30 from Campeachy, lics off in the Sca a certain Clufter of Iflands mentioned before, called the Triange's, from their Situation. There is nothing to befaid of them, but that here they are; which when the Sailor knows, tis his bufincts to kecp off of them.

From Mina to Campeachy is 6 Ls W. 'tis a tolcrable larese Ci$\mathrm{t} \%$, and a good Port, and the only Town of note to be fecn on the Coaft from Cape Catoche to Vira Ciruz, at leaft that lics open to the Sea. There is a Fort which commands the Entrance of the Harbour; and they that would go in, nutt come clote under the Guns.

From Campracby the Courfe is neareft duc S. dift. about 10 to 12 Lsto Champetan, a famous Port formerly for Loswood Cutting, but now worn out: and from Champetan S.S.W. or S.W. by S. dift. 18 Ls, lics the Harbour of Port Re;id. In the Midway between is a River, in the Mouth of which is a Imall Harbour called Bocca de Efchondido, or the opening of th River E/chondido.
ort Roial is the Entrance into a şeat Salt Lake, which is onc of thofe called the Lagunas: the Lake is 9 to 10 Ls long, aild 3 or 4 Wide, having two Mouths one at cach cod. This Entrance of Port Royal has a Bar thwatt it, on which there is not above 9 to 10 Foot Water: The Entrance is about a Mile over, and 2 miles long; and when you are in, there is Water enough, and leveral good Bays and Anchornigplaces, where Ships ride very fecure, and have very good Landing and Loading.

Ships gencrally anchor on the Weather fide of the Entrance, that is, on the E. fide next to Champetan: and this is done for Convonerice, to ride by certain Wharfs made by the Logwood Curb-5 tor Loading, but chicfly to be out of the Stream of the'r's wich runs very ftrong both in and out in the Mouth of th: Lagmua.

From this part the Land rrends away W. and holds it fo, near 70 Is further, to the Coaft of Guaxaca. On the W. fide of the Harbour is a luw fivampy Ifland, called by the Scamen $\because$ "rt Royal Ifland; it makes one fide of the Pafface in, as the main Land does the other. This Iname which is diftinct from the other, is about two Miles wide and threc Ls long, running duc $E$ and W.

On a. W. fue of this Port Reyal Ifland is another fivallow Ifland, called Tru/t, parted from the other by a fimall Creck. lcarce broad cnough for a Canoc to paddle tho': This Ill.und is reckon'd about $;$ miles wide, and at lealt 4 Ls long, itretch-

## Sailing Directions from Jamaica $t$

ing $E$ and W. over-grown with low bufhy Wood, and fome very high Palinetto Trecs. At the W. cnd of the Ifland you will find good frefh Water, if you dig but 5 to 6 Foot deep in the Salt Sand on the Sea Shore; if you dig Iefs than 5 Foot, the Water is brackifh andtale; and if you dig above 6 Foot, it is falt again.

This Illand was well peopled with Englifh, when the New Emgland Ships ufed to come for Logwood: The large Ships Which drew 16 to 17 Foot Water, ulitially rode clole to the Shore in the Channels of Trieft; and in 6 to 7 Foot Water, fimaller Veriels would run up to One-Bufl) Key, which was; Ls farther in.

There is another Entrance into this Lagune, which is betwecn Triegt and Bees Ifland, in the Place called One-BulbKey: Thus ad Entrance is about 3 Miles wide, it is Thoal without, and has only two Channels to come in at ; the deepeft has not above 2 Fa. Water, no not on a Spring Tide; the W. Chamel has about 10 Foot Water; and pretty near Beef Ifand you may run in with the Sca Brecze, but you mult keep your Lead going all the way. Being fhot in from the Point of Beef 1/lund, you will find; Fa. then you may ftand over towards Frieft, till you come near the Shore, and then anchor as you pleaife: Any where between the Iland and the Point you have good Ground; the only Inconvenience is, that the Tide runs very hard in.
This is the reafon why the Spaniards call this Lake the Lazuna Termina, or the Lake of Tides, for the Indraught is very flarp. There is a kind of a lVare, or Thorowfare here; and fimall Veffels go in at one end and out at the other: but this is not often.

There are feveral Crecks and Rivers. and finall Inlers of Water in this Bay, befides thofe mentioned here, which fmall Veffels run into and out of at pleafure; of which one of the molt confiderable is the Ruver Summafenta; it comes in on the E. fide of the Lagulna, as you come in at 'Port Royal: This River, tho fimall, is large enough for good Periaguas and Shallops to enter; the opening is on the S. fide, near the middle of the Lagunk : it was named from an Indian Village at the Mouth of it ; but the Village is loft fince that, as was another near it called Chuquebut, 7 to 8 I.s up the Frefh; and all the Land on both fides yiclds a valt quantity of Logwood.

Croffing the great Laguna, you come to One-Buflh Key, as 'tis called, tho it fignify only One-Buth Ifland; and'tis called Onc Bu/h, for having one Tree with a large bullhy Head growing uponit.

The Ifland. or Kcy, is not above 40 to 50 Paces long, and about 5 or 6 Yards broad; to that'tis a very little place; yet 'tis a good Road or Harbour for finall Veifels. The Ifland feems only a great Heap or Shelf of Shells driven together by the Current, and beaten up by the Storms to lic above high Water Mark ; it is abour a Mile from the Shore. Oppofite to the Illand opens a Creck, which looks like a River, but is only a Chamel out of this Lake, into another very great one; on the Shores of the other Laguna the Logwood is cut, and the Boats tow it thro' this Chancl to the Ships riding at
the River, es as youg rainy Scalo not only ch Water a go Mofe lics it. There vigation cx Country, a Spain; wh Coaft.

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the River, and there is good anchoring in feveral of the Reaches as yougo up, in 3 to 5 Fa. 6 or 8 Ls from the Sca. In the rainy Scalons the Freihes are fo frong in this River, that they not only check the Tide of Flood, but you may take up frcih Water a good way without the Bar. The Town of Villa de Mofe lics on the Bank of thís River, and finall Barks come to it. There are feveral other Towns up the River, but no Navigation except for Sloops and Periaguas. This is the Cocao Country, and here they thip great Quantities every ycar for Old Spain; which brings abundance of Sloops and Barks to the Coaft.

The Coaft continuing E. and W. the next Place of note is the River Cbikapeque : the Courfe from Tabiffo is due $W_{7} \mathrm{Ls}$ : the Shore is a clean Strand, the Land low, and over-grown with very high Trees: Here are feveral good Roads, the Coaft all clear, and good Shoaiings; you may ride in any depth to 10 or 12 Fa. The Mouth of the River is narrow, not above 20 yards over, it has about 8 to 9 Foot Water on the Bar, but within there is ${ }_{2}$ Fa. and more : 'tis a very good Harbour for Barks and Coafters, which gencraliy ride for half a Mile by the Shore within the Bar.
${ }_{5}$ Ls from this River, the Courfe fill W. comes in the River Palmas; and from Palmas a Ls father lies the Point called Halover, or Haul-over, a Name given by our Seamen, becaule here they ufiually haul'd chcir Canoes over, out of the Sca into a Lagune behind, from whence they went a plundering the Spaniards up the Country.
That Lagune opens into the Sea farther W.at St. Annes, dift. 7 Ls from Halover; there they have a convenient place to careen their Ketches, and friall Barks, and where our Pcople often run in for that purpofe.

From hence to Tondelo is 5 Ls , due W. the Shore is all
 woody and low, fo that you cannot make the Coaft from the Sca at above 4 or 5 Ls Offing.

This River Tondels is navigable for Barks and Ketcles of so to 60 Ton, tho there is a Bar at the Eurrance ; but the Channel is deep and crooked, and full of thort Reaches, fo that there are feveral good Anchoring places under the Points.

At the Entrance there is a Spit of Sand runs out from the $W$ Point, to avoid which you muft go in under the E. Point; but when palt the Bar, you have a fair Channel for $j^{\text {to }}+\mathrm{Ls}$, and large Periaguas go up many Ls farther.

From Tondelo to Guafickialp the Courfe is fill due W. dift. 8 Ls. This is a confiderable River, and of the longet Courle of any on this Coaft ; yet 'tis not to broad as the Tabafo, tho the Channel is deeper: There is it Foot Water upon the Bar, nor is the Sca upon the Bar to dangerous as at the Rives of Tabafio. When you are in, the River is navigable for the largett Ships; and there are very good Anchoring-places in toft Ground, and with 5 to 8 Fa. Water: but as this River has becen too much the Retreat of the Rovers and Buccancers, the Navigation is lefs ufed in the ordinary way of Trade.
$N . B$. 'Tis fuggefted that this River is navigable fo far within Land, and has its Sources to ncar the Soutt, Sca, that a

Shallops to enter; the opening is on the S. fide, near the middle of the Laguna: it was named from an Indian Village at the Mouth of it ; but the Village is loft fince that, as was another near it called C/buguebul, 7 to 8 Ls up the Frefh; and all the Land on both fides yiclds a vaft quantity of Logwood.

Croffing the great Laguna, you come to One-Bufb Key, as 'tis called, tho it fignify only One-Bulh, I/and; and 'tis called One Buflb, for having one Tree with a large bulhy Head growing upon it.
The Ifland. or Kcy, is not above 40 to 50 Paces long, and about 5 or 6 Yards broad; to that'tis a very little place; yet 'tis a good Road or Harbour for fimall Veffels. The Ifland fecms only a great Heap or Shelf of Shells driven together by the Current, and beaten up by the Storms to lic above high Water Mark ; it is about a Mile from the Shore. Oppofite to the Illand opens a Creck, which looks like a River, but is only a Chamnel out of this Lake, into another very great one; on the Shores of the other Laguna the Logwood is cur, and the Boats tow it thro' this Channel to the Ships riding at the Illand, where they have 2 Fa . Water, but in the upper Laguna it is decper.
W. of Trieft is Beef IJand, named fo from the great number of wild Cows and other black Cattle, ulually found there: 'Tis about 7 Ls long, and 3 to 4 broad: 'Tis of no other note, except for a fine fandy Bay, where Ships ride in 7 to 8 Fa well fhelter'd.
W. from Berf IJaud, the River St. Peter and Paul comes down to the Sea; the eaftward opening of which River wafhes the W. end of Reef Ifland ; the other Branch falls into another River called the Tabafoo,' which comes in farther W. and that Arm of the River 'Pcter and Paul joyning it, makes the Land without be an Inand alfo, ftretching W. from Beef Iflarid, and called the Illand of Tabafio. There is a Bar at the Mouth of the E. Branch of St.Petcr and Paul River; but fmall Ships go over is with the Tides of Flood, and within you have $2 \frac{5}{3}$ to 3 Fa. and very good Riding.

The Illand of Tabafon is about $1=\mathrm{Ls}$ in lengeth N . and S . and about 4 broad $E$. and $W$. at the $N$. cnd. The W. part of the Coaft is a tair Strand, with good Soundings, and a hard fine Sund guite to the River Tabafor, which makes the W. fide of the Illand: Bue here gocs a great Sca up this Shore, becaufe of the Trade-Winds from the N.E. and E.N.E. pouring in the Current from the Entrance of the Bay betwecn Cape Catoche and Cape St. Antonio ; that is, between the $\mathbf{N}$. Point of Yucatow, and the S.W. Poine of Cab, directly upon this Shore: This Surge of the Sca caufes the Landing here to be very dangerous, to that the Boars are oblig'd to go farther W. to the Nouth of the River; and cven there the Sca gocs very high upon the Bar, when the Ebb and the Wind meet together.
The Mouth of the Tablafoo is about 2 Miles broad, and there is not above 2 Fa. on the Bar at low Water, and about $3^{\frac{1}{2}}$ at high Water; 'tis the largeft River onall chis Coaft of the Gulph, but of tmall ufe for waut of Pcople: The Tide flows up 4 Ls into
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$N$. $B$. 'Tis fuggefted that this River is navigable fo far within Land, and has its Sources fo near the Soutl/ Sca, that a fmall Expence would open a Paffage thro' and join the Commerce of the two Oceans : For the Sources of the River Teguantepeque, which talls into the South. Sea, are in the fame Mountain, and not' above 2 Ls from thofe of this River ; and their Waters might eafily be join'd, by cutting a Canal round the fides of the Hill, upon a level with both Currents.
$N$. B. The Spaniards ofren fend the naval Stores and heavy Goods for the Manilla Ships, by Water-Carriage up this River, and down the other, carrying them only by Land about 10 or 12 Ls between; the Rivers not being fuppos'd to be navigable, without fome help, quite up to their Sources.
For about 2 Ls beyond the Mouth of this River the Coaft continues to lic E. and W. but then trends away N. for abour 16 Ls to the Country call'd St. Martia's Land, which is a high Mountain fhooting out in a large Promontory, and ending in a great Bluff Poivt, anfivering to the Cape Condecedo in Yucatan: So thofe two Boundaries make the Bay of Camperschy, fo famed in the marine part of the World for the Adven. tures of the Freebooters, Buccaneers, and Logwood-Cutters.

From hence it is 20 Ls to Cape Alvarado, the Courfe W.by S. the Land high and rocky, and the Shore foul, with to great a Sea pouring in always upon it, that there is no landug upen it. Cape Alvarado is the E. Point of a River of the lame Name, the Mouth of which is about a Mile wide, but the Watcr thoal, by reafon of the valt Quantity of Sand thrown up by the Sea, fufficient to choak up the greateft River: Thefe Sands lic for above 2 Miles off the Shore, yet there are wo Channels kept open thro' thofe Sands, efpecially in the Wiater, by the violent Current of the Frelhes from the MIountains. In the beft of thefe, which is the weftermolt, there is 12 to 14 Foot Water.

The I.and on cach Point is fo rais'd by the Sand divicn up by the Sca, that 'ris faid the Sand-hills are above $=00$ Foot high; the like I fuppole is not to be feen in any part of the known World. On the W. Shore, juft againtt the Mouth of this River, the $S_{\text {prititards }}$ have a Fort of 6 Gums, on the Declivity of one of the Sand-hills.

At 6 Ls due $W$. from Alvarado there is another large Openinsinto the Sca, like the Mouth of a great River; but it feems it is a Branch of the tame River, and they tell us that Veffels pals in at one River, or at one Mouth of a River, and out at the other. Thete Openins are very convenient for the Navigation; for upon the Shore, all along from Point St. Martin hither, there is to violent a Surge of the Sca, that it is impolfible to land with any Boats, Canoes or Periaguas.

As the diftance from Aharado to this laft Opening is but 6 Ls, upon a jult Mealurement, and that it is the lame diftance from the Opring to lia Vera Cruze 'tis ftrange that all our 0 aughts and Pilot-Books thould call it $2+$ L.s; which is certainly wrong, and for which 1 have the Authority of feveral good Authors.

I have therefore fet down the diftance between Rio de Alvarado and $V^{\prime}$ era $C r l i \approx$ at 12 Ls, as 1 fud it in T)ampicr, and others, who were thorowly acquainted with thole Scas.

La lera Critz, by this Situation, is rightly placed at the $S W$. Corncr, or Bight rather, of the Bay of Mexico, at the very Bottom of the Bay: And 'ris apparently to, becaufe from the very Nook where this Port ftands, the Coaft which lay E. and W. before, goes away duc N. again, and holds it to from this Port, which is in Lat. 19 d .15 m . or thercabouts, to Ciat ce Roxa, in Lar. 23 d. 5 in. almoft 250 Miles.

There is a very good Harbour, with feveral fmall Caftles before this Town, and a royal Fort ; the latter they call St. Yoly de Uliai, and the Spaniards call the Town fometimes by the fame Name: it is now the grand delivering Port to the Cisy of Mexico. From hence to Old Vera Crua is 5 Ls, the Coute N.W. This was the firf Sea-Port for Mex:en; but there wanting a Harbour, the Sfantiar ds cinovd to St. Gobn de "itur, and afterwards the Town was removed alfo.

Next to ha I CraCruz, lies the Roo Sempel; then follows 'I': atta de Villa Rica, off of which lics a Ledge of Rocks call'd Sacrificia: Then follows Torro Blanco Tulate and Chano. 41 inarala ; thefe all lic in Lat. 20 d .20 m .

Hore the Land is low and flight : you will find, when having 6 I 2 hard Clay Ground, and nearer in, at 4 Fa. ihclly
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## Sailing Directions for the Sout



R O M Cape Roxo the Shore trends in N.W. until you come to the River Panuco, where the Land gives a Turn, and lies along N. The firft River to the northward of Panluco, is St. Bartbolomew, which is bur a lima! River, and little fpoken of: Then

7 Arms Country,

The $E$. whence 20 I.s in

## - for the South Coaft of Florida.

Ground ; if you fhould chance to fall with Toro blanco, you will fee a Row of Hills reaching S.W. into the Country, which likewife is callid by the lame Name. Thete Hills reach along to the finowy Monitains N.E. and to the fouthward of thete lie others, which in Appearance feem like Hay Cocks: Bat towards Villa Rica the Land and Hills are nor very high. The Coalt here is all full of Points and broken Land; and there is no good Harbours for a great way, till you come almoft to 'Porto St. T'Pdros ''ablo.

The City St. P'edros 'Pablo lies in Lat. nid. and if you come hereabouts, and are open with the River, you may then fie the Land of Tu/pa, the Coaft of which is very good, having fevcral Bays, and all landy. A little to the northward of the River are two fimall Bays, the northermoft is the biggeft ; where in 60 Fa. you will have hard Clay Ground; and when in 40 Fa. you will have Gravel. The River is wide and large, having in the middle of the Channch an Ifland call'd St. P'anlus: Next to wheh, farther N. lie feveral other Iflands, the chicf of them are about Cape Roro, and are the Illand Lobos, and BaxuTufpa, that is, the Ifland of Wolves, and the Shoals of Tu/frl.

If you are coming from the Sca, and you fall with this 1nand, which lics before Cape Roro, and is round abour foul and dangerous, rum in behind the Ifland, there is a good Road : This Ifland is low, and full of Paim Trecs, affordng likewile good frech Water: And within it lics a Shoal like the Bottom of a Boar, behind which is good riding, that is, between the Laid Shoal and the Cape.

If you would hail from thence to Ville Ricke, you muft go to the caftward of Baso de Tutpa; and if you cone not above is, you may run thro' between the Main and the atoretaid Shoal, in 8 or 9 Fa. Youmay allo make good Road there if Occalion ferve

The River Tufpa may be known offat Sca bya Row of fmall Hills reaching N.E. and S.W. at leaft 15 or 16 Ls into the Country. About s 1.s off Shore you will find.Clay Ground ; and on the N. fide of the Illaud de Labos N.W. by N. is another great River call'd Panuco, in the middle of which lics an Ifland which makes two Entrances or Channels in: The fouthermoft is calld St. Stepben, and the northermolt Hermofin, that is, Beaut tful, \&c.

Now we come to the wild Coaft of Florida, of which you can have but a bricf Accounr.
$g$ is but diftance all our is cerf feveral di Alva. icr, and is. d at the o, at the aufe from d lay E. to from outs, to call St. times by f to the Is, the is ; but St. Yolnn follows f Rocks and $C / s a$.
when haa. thelly

## ns for the South Coaft of Florida.

 r to the 7 Arms or Rivers, which reaching a long way into the Country, vent themfelves into the Bay.The E. Point of the Bay is called Cape Qualata; from whence the Coaft to Cape Efiondido lies along E. about ; which : Then 20 Ls in Icngth; the whole Cexft almofl fill of finail Mands
there wanting Harbour, the Spantards iemovd to St. Yolm der $\mathrm{C} / \mathrm{ma}$, and afterwards the Town was removed allio.

Next to 1. Vora Craz, lies the Rio Sempel; then follows "13: ${ }^{\prime \prime}$ ta de Vill: Rica, off of which lics a Ledge of Rocks call'd Sacrificia: Then follows Torro Blanco Tulate and C/ano Almaria; thefe all lie in Lat. 20 d .20 m .

Hure the Land is low and tlight: you will find, when having 6 li. hard Clay Ground, and ncarcr in, at 4 Fa. Ihelly
alld oll ther gre an Illand thermolt that is, Now can hav

## Sailing Directions for the Sou



R O M Cape Roxo the Shore trends in N.W. until you come to the River 'Panuco, where the Land gives a Turn, and lies along N. The firft River to the northward of Pamuco, is St. Bartbolomew, which is but a finall River, and little fpoken of: Then you come to the River 'Palmas, and Pifcadores, the Coalt all along between, is call'd by the fanue Name as this River, becaufe there is abundance of Fifh on that Coant, and the Fillhermen from Cape Roxo ply it continually with their Boats.

The next River to the Northward of Pifcadores, is the River birava, then the River Solo; betwixt which and the River Difrondido, the Land trends off to Cape Blanco N.E. and from Cape Blanco it falls away again to the River $M$ derdulnan N.W. This is the largent River of all thofe to the Northward of the 'Panuco. From Magdalent to the Rever 'Plata the Coaft lies along N.N.E. ncarelt; and they are about 25 L.s dift. one from the other.

The next River is called Suela, from whence the Coalt of Baxs trends away N.E. and N.E. by E. till you come to the River Laofa; between which and Sucha are rwo other fimall Rivers, tho there is no Defeription or mention made of them in any other Spaniflb Charts; we may therefore fuppofe them to be Places of no great Contequence. From the River Laofa eaftward lic the Rivers Monatanbas and de Zerto; from which the Coaft, till you come to the great Bay of Spirito Santo, lies along duc E. Cape Cruz making the W. Point of it.

This is a deep and large Bay, having in the middle of the Fntrance of it an Ifland, by which you may fail in on cither fure: The Bay within foreads it felf very wide, having 6 or

7 Arms Comintry

The 1 whence 90 Ls in and a flat Shor Ship by are not

Thero arc comi called $A$ Cinaver not : TH Arenas, Entrance Rivers, This is in the? Iflands,
From full of : St. $P^{\prime}$ an Sancto, large M moft lics accurate ings, or very dif many $B$.

II follows of Rocks and Cloa. when haFa. thelly
and on the $N$ fite of the Illand de Lobles N.W. by $N$. is another great River call'd Panneo, in the middle of which lies an Illand which makes two Entrances or Channels in: The fousthermolt is call'd St. S'tephen, and the northermolt Hirmofia, that is, Beautiful, \&cc.

Now we come to the wild Coalt of Florida, of which you can have but a bricf Account.

## ions for the South Coift of Florida.

until you dyives a cr to the $\ddot{*}$, which f: Then the Coalt this Ri oalt, and with their
es, is the 1 and the 'anco N.E. he River thofe to ' $a$ to the and they
the Coaft till you Sucla are iption or hatts ; we at Confehe Rivers till you ag duc E.
lle of the 1 on cither aving 6 or

7 Arms or Rivers, which raching a long way into the Comery, vent themiclves into the Bay.

The E. Point of the Bay is called Cape Qualata; from whence the Coaft to Cape E/condido lies along E. about 90 Ls in length; the whole Coaft almoft full of fmall Iflands and a landy Bank reaching along the fame, which makes a flat Shore, to that you mult not come near it with a great Ship by fix or cight Ls, except in certain Channcls, which are not caly to find.

There are likewife feveral fmall Rivers on the Coafts as you are coming out of the Bay from the Weftward: The firft is called Matos de Salvador, betwixt which and the River deb Callaverel lics another finall River, but the Name we know not: Then follow the Rivers Arecifa, 'Plaia, Flores, and Arenas, all pretty large but not decp, and barr'd up at the Entrance, to as not to be navigable far in. Before all which Rivers, as aforclaid, lic leveral llands, yet not dangerous. This is a good Coaft, elpecially in Northerly Storms, where in the Mouths of any of thefe Rivers, or behind any of thefe Iflands, you may lic fhelter'd in thote Winds.

From Cape E/fondido towards Cape Florida, the Coalt is full of Bays and Inlets, with feveral linall Rivers, aiz. Rio St. Patll", Rio Cazallos, the Bay of Mirielln, and Spirito Sanclo, into which flows the great River Miflifippi, at feveral large Mouths or Openings : and on the Shore of the Eaftermoft lics t'a Spantlb Town of Pe'ufacola; but we have no accurate Defeription, much lefs any Pilorage into thofe Openings, or for any part of that Coaft, which is a decp Bay and very difficult ; from thence the Coaft reaches again S. with many Bays and Crecks, till you come to Cape Florid,.

## Sailing Directions for the $B$.

## Sailing virections for the Coaft of Honduras, from of Darien inclufive ; which concludes $t$



R OM the E. Point of the main Land of Tucatan, where we begin the latt Courle, the Land trends away S and S. by E. to the Illand of Coznmot: The dillance is difputed here, as is that of Vora Cruz and Alvarado, between Map-meafurement and Experience: 'The former, places them about 25 Ls afunder, and the latter $4^{0}$ : Whence the difference ariles 1 thall not difpute, and inded cannot determine.

Between thete, and io Ls S. from Cape Catoche, lie the Ifles Mugcras, or IV'omens, or Mcn Eaters Iflands. On the S. part of Which on the Land fide, is good anchoring in 7 to 8 Fa. clean Ground The lhand Cozumellies parallel with the Shore, N. and S.dift. from the main about $1 \frac{2}{2} \mathrm{~L}$, about is Ls in length, and about $4^{\text {to }}$, in breadth, but narrow er at either End. From the N. and of the lland rums out a great Riffof Sand above 7 Ls long, and f broad: it you would put in at this Illand, coming from the N. you mult ftecr from the Men Eiatcors Iland S.E. by S. till you come the height of Cozemel it lelf, giving that great Shoal a large Offing of at lant 8 or 10 Ls ; and thicn you may ftand right in for the mand. There are feveral little Bays on the E. whore of Caミnint?', where you may ride fecure from wefterly and northerly W'inds.

From hence the Shore falls off W. and the Coalt gocs away S.W. into the Bay of the Ilonduris. The Coaft is all along flat and low, cover'd with llands at a limall diftance from the Shore, fo that there fecms to be no coming into the true Shore of the Main; and if you make the Coaft right off at Sea, you muft not venture in with the Shore, for fear of being deceived by the lownets of the Land. This thatnets of the Shore reaches from the Mam of Cozume N. to the Morrodos 9 Jinitolor, a Sct of Hills call'd to by the Spantiards from the Buccanecrs, who ufed to land here for Provifions, and Whom they look'd upon as Devils tor their cruclty, and theretore call'd them the plundering Werils, and the Hills fo, from their harbouring in them.
rou may pats between the Inands Ingeras and Cozumel and the Main in a good Chmol, having 5 to 7 Fa. but kecp your Leadgoing, for there are Shoals on both fides; but the Fair IVay, which is Mid-Chancl, is fate and good.

Ás there is litte Commerce on this E. Coaft of the Mondurar, fo the Harbours are net confiderabie till you come palt the Coaft of Tucatal.

The S.E. Coaft of the great Peninfula of Yucatan makes the N.IS'. Coaft of the Bay of llunduras: The oppofite Shore of the Gulph is form'd by the N. fide of the Country of Hondufors it seff, and bounded duc N. by two Capes one behind another, tho at a large diftance, viz. Cape Houduras and Cape Cameron, the one the N.W. Point of the other Peninfula call'd the Howduras, and the other the N.E. Point.
ouc fir when yOu

In and $w$ a tair it, wh Ifland: and in venien

## [onduras, from the Eaft Point of Yucatan to the Gul $l_{i}$ b hich concludes the Coaft of North-America.

of Yiucatall, ind trends aztamel: The Vira Cruz nent and Exaliunder, and hall not dil-
lic the Ifles the S. part of o 8 Fa. clean ihore, N. and th, and a bout m the N. and Ls long, and ing from the by S. till you great Shoal a u may ftand ys on the E. rom wefterly

If gocs away all along flat ce from the nto the true : right off at fear of bcing atnefs of the , the Morroaniards from ovifions, and $y$, and therelills fo, from

Cozumel and nut kecp your but the Fair
he Mondurar, palt the Coaft
tall makes the fite Shore of ry of Hondune behind ancas and Cape eninfula call'd
one from cach Point of the Bay ; but keep Mid-Channc!, and when you are in, 'tis all clear, and you may anchor wher: you pluak.

In the Offing of the Bay of Trivigill lics the Iffe de Thinas, and within, a little to the louthward, the Bay it felt: it is a tair fpacious Bay, ind has feveral limall Inands in the Mouth of it, which makes it good anchoring in the B.ay it islf, thofe Inands breaking off the Scit. The Bay is deep clean Ground, and in it there are leveral Crceks for watering with great convenience.

A little W. of this Bay is the Rio 'Dulce, and W. ef that Cape Monchiono. with a Bay, before which lies the Shoal or Riff of Sand call'd Salmadima; oft of which to feaward lies the Illand Thilla. Thefe Places are all needful to be known to thole who go in here ; but they are to fell, that 'tis of no great ule, for 'tis out of the way of all Shipping except of the Spaaiards.

To lial from Tricigill to \%orto Cavallos, your Courfe is ben tween the Shoals of Mabagueras or Mabumeluas and the Salmadimas; but if theW ind thould lack, and the Stream endanger your running on the Salmadima Sands, be fure to come to an anchor neareft the S. fide of the Shoals, where you will have 7 Fa. Water. On the S E. fide the Ground is good, but on the N. 'tis dangerous and foul. The W.fide of the Salliadinas hes S. of Willi, and N from Miagrla. If you are bound ont without the Inands into the Gulph, run firt 3 I.s N.W. ofl ro Sca from Trivigillo, to get clar of the Mes ; then N.W. by W. till paft the Mahagneros; and then run thro' between the Gitacaime and the Salmadilua Sands, and you will go clear; but take clpecial care of the Illand Utilli, for 'tis all foul on that fide far out to Sca.

On the E of all this Bay lies the Cape de Fomatiocas, which is the $N$. Point of the E. Shore of rhe Gulph; it hes in l.ar. 16 d . or thereabouts ; from whence moft of thote llands mention'd above lic N. or N.W.

The Ifle of St. Catberitu lics from this Cape S. by E being in Lat. 13 d .15 m .

The Inland Guamaje lies N. by W. from Cape Homdurar, and has a Train of Ifauds runnong andy fiom it W. and W.N.W. tewardsthe Bottom of the Gulph : This Ithad allo has fome Shoals off of the N.W. fide of it, nor is there any Rond about ir that we can recommend to an unacyuatated Sailor; and as for Pilots, the spaniards are fo thy of any ot the Lit:ropean Nations, and fo chary of their Coalt, that tho they are but forry Pilots at beft, you are fure to have none of theis help.

The Harbour of Traxillo is at the Botcom of this Gujpis on the fide of Honduras, and there is a very good Post; but the Spaniards fuffer no body to come in there.

On the E. fide of the Continent of Hondurar, and between the Coaft und Cane Gratiag)ios, lies the Bay of Cartag2: The
 the Buccancers, who uded to land here for Provifions, and whom they look'd upon as Devils tor their cruclty, and theretore caild dhem the plutuderig Wevils, and the Hills fo, from their harbouring in them.

You may pals betwecu the Iflands.1ugeras and Cozumel and the Main in a yood Channel, having 5 to 7 Fa. but $k e c p$ your l.eadgoing, for there are Shoals on both fides; but the Fair /fay, which is Mid Chancl, is fate and good.

As there is hittle Commerce on this E. Coaft of the Monduras, fi) the Harbours are not confderable till you come palt the Coaft of Thcotin.

The S.L. Coaft of the great Penimbila of Yacatan makes the N.A?. Conf of the bas of Itmeduras: The oppofite Shore of the Gulph is formaby the N. fide of the Country of Honduees it teif, and bomded due N. by two Capes one behind another, tho at a large diftance, mz. Cape Houduras and Cape Camaron, the one the N.W. lome of the other Penintula calld the Houdtras, and the other the N.E. Point.
The (iulply runs deep in between thete two Mains: So that 'tis a dangerous Bay, full of great Shoals and large lhands, lome mhabited and fortify'd by the Spariards ; fome not inhabited at atl. On the Main there are no confiderable Rivers, the Land which is narrow there not admitting it; but there are fevaral Towns, and lome very good Porss, being the Shore of, or near to, the rich Countrys of Cilutimala, Ginaxaca and the jlinduras, lich as Poorto Sial, the Bay of Triviglio, or TriviSiln. Timillo, and feweral others, and the Iflands of 'P'inas, Cimenaid, Leim, Gimaiona, Otilla, \&e.
N. $B$. Cape Honduras is in the Lat. of 15 d .50 m .

The whole Coaft down the Gulph is fpread with Iflands too many to mention; and as they are of fmall Importance in Viviatinn, only to caution youto kecp off the Shore, to we need ond mention them, tho moft of them he on or near the Share of Titcatan, which renders the Coaft altogether unfit for Commerce, the Shores being to dangerous, that none but fuch :s are thorowly acquanted care to venture within the Gulph: liefides, the whole Coalt from the Cias, which are two Illands an the N. pert of rucaten, is that all along; to that coming thom off bea, you muft not fland too clole in with the Land, Int yni are deceived, and forced on Shore. The principal Hants on the N or W . of the Gulph, are the Ylot, the Salamancas, the Lamamas; then the Zaratan, and the l'antoja, the


All thiculhands he on the Coatt of Tucatan, from the Ifland of Coztmit to the Bottom of the (inph, with many others.

There are alfo fome Revers on that fide, fuch as the Rio de
 are all fimall Streams and of no confequence. At the Botrom of the Guph on the $s$. fide is the Porto de Cavaltos, call'd to becanke a ship Ioaded with Hortes being driven in there, they were blised to throw them over-board. If you are bound in thene, you maft bave gicat catic of wo Shoals which lic off,
the Spariards from or Provifions, and crucley, and thercI the Hills fo, from
as and Cozumel and , Fa. but kcep your fides; but the Fair ood.
aft of the Mondurar, come palt the Coalt

Yucatan makes the oppofite Shore of Country of Honduapes one behind anlonderas and Cape her Peninfula call'd t.
, Mains : So chat 'tis large Mlands, lome fome not inhabited derable Rivers, the $t$; but there are febeing the Shore of, 7. Giltaxacia and the riviglio, or Trivi. c lflands of 'P'inas,

15 d .50 m .
ad 11 ith Illands too aall Importance in ff the Shore, to we he on or near the altogerher unfit for that none but fuch : within the Gulph : wich are two lllands $y$; to that coming in with the Land, ore. The principal the Ylob, the Saldind the 'rantoju, the
an, fom the Ifland th many others. fuch as the Rio de io Defil; but they ce. At the Bottom Cavallos, calld to iven in there, they If you are hound ia roals which lic off;

On the E of all this Bay lies the Cipe le Aomainoter, which is the N. Point of the E. Shore of the Gulph; it hes in lat. 16 d. or thacrabouts; from whence molt of thote hlands mention'd above lic N. or N.W.

The Ific of St. Catherina lics from this Cape S. by E. being in Lat. 13 d .15 m .

The Illand Guanaja liss N. by W. from Cape Monduras, and has a Train of Illands running away from it W. and W.N.W. tewards the Bottom of the Gulph : This Mand allo has fome Shoals off of the N.W. fide of it, nor is there any Road about it that we can recommend to an unacquanted Sailor; and as for Pilots, the spaniards are fo thy of any of the É: ropean Nations, and fo chary of their Coaft, that tho they are but forry Pilots at beft, you are fure to have nome of theis help.

The Harbour of Truxill is at the Bottom of this Gupt: on the fide of Houdurar, and there is a very good Port; but the Spaniards fuffer no body to come in there.

On the E. fide of the Continent of Monduras, and between the Coaft and Cape Grat ia Dios, lies the Bay of Cartago: The Shore here is a finc findy Strand, and thore is good anchoring in this Bay, occafion'd by feveral lllands in the Mouth of it, but cfpecially one juft in the Entrance, behind which is a very yood Road.

There is alfo another Bay lying E. of Cartego Bay, call'd the Bay of Bibora, from the River ha Bibara, which empties it felf into it: This is but a tinall Place, and not fit to receive Ships of burden; but between them a little W. of Buboria, lies the Bay of Cotroc, larger than the iert, tho not to big as the Bay of Cartago.
S.E. by E. from Cape IIondiras, diftance by the ordinary Scale about 80 Ls, lies the Cape de Gratia, or (ivatia 7)ios, in Englifth Cape Thowe Goot, being the Point of Land extended from the S. part of the Province of Gibatimath, and Le from the Country of the Hondiuras. On the W. fide of this Cape lies the Bay of Honda, or the 'Decp Bay. There are abundance of Iflands upon the Coaft of the Bay; but of no importance: In the Bay youmay anchor fafely in io to is Fa.

The Shore of the Bay is a clean Strand, but there runs ofl a Shoal from the E. fide or Point, which you mult avord.

There lie fevera! Clufters of Illauds off of this Com, all the way between Cape Cameron and Cape (ixataz \%an. befides what are mention'd above: as the lfiat $:=0$ ens, of of the Bay of Hoidd, and the Dog Figh Iflats to the morthward of them, thefe laft are only furromaded weh Rociss and Shoals, and are dangerous to comencar.

Likewite the Mew Ifludt, which lie thwart the हatrome into the Bay of Cotroc or Coboce, and are, as the: ? $C$. Iflands, all furrounded with Rocks, and wery dangerom, diecially in cate of hard Gutts trom the N. and ©
 ing almont to both, there ruts ont a gent hemi, what an whe


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the
the Land for more than is Ls in breadh, and rums out into the Sea for near to, but thappenng to a Wedec. Onthe S.W. fide of this Shoal, and withus the midde of it, tie the bianos. being t low llands, and called to becaute they are low and ther: they lie crofs the Sand parallel with the Shore: and on the N. fide lie fix other Ilinds called the Millazes, or the Maian\%, alfo firrounded with Rocks.
Duc S. from the Capc Gratha Dios, and at the extreme S W. Point of the Province of Hondurar, lics the Entrance mto the great Lake of Nicendeth, being ahout +5 I.s dith trom the Cipe S and about as mich from the Riolodera N .
Off from this Coant, ar a arcat daft. in the Sca, lie fercral Ilands, and Clufters of mands. extendung from Cape (irathe
 1. The Feart lhamde dac E, from the Cape, and the farthet nur to Sca, dit from the Cape i.c, or thercabouts. $=$. The Mefortar, $\therefore$ ing m S.S.W. from the $i^{2}$ caml IJdads. i. Roncomers, due 5 trem the Paml Ifland:
N. $R$. Thede mande called the $P$ 'ayts had once great refort for the Pcarl Fithing, but are now worn our.
Within thole Ithands, but upon the lame Coaft, lie the Illands of St. Audero, and the Catbariue, two fimall Illands near together NE. from the Coalt, hearing from l'ourn NW. in Nabout $=6$ to $2-$ Ls dat. and from $\%$ 'unta de Naes N. and N. by W. in lat. $15 \mathrm{~d} .1=\mathrm{m}$.

The Entrance into the Lake of Xicaragna lics S.W. from thefe Illands; the Pafinge or Chancl in goes ; feveral ways, occafioned by fereral ilhands which lie in the Mouth of it. The Inland part being a frell Water Navigation, does not belong to nur pretent Work. The chicf Palfage is betwen the = las eet Ihands, and is called Portode St. \%uan, or the Eutrance ot 1 Yoins: The Strait is called the Reo des a Cituadery, or the Rirer Girader, which runs up 30 Ls within the Country to the City of St. \%ua\%, where it opens into the great Lake, when is taid to be so l.s lons. and so broad, of which we manegucta a Deferption in its place ; it remains however to be addci, as preper to this Part, that large Vcticls lail up this River, and meto the Lake, and the Trade carryd on cmploys many Shep; but as the $S$ poniardo admit no Navigation, except the:r own, and we have no exact Survey of the Lake, we can Eve no Defeription of the Depths, Shoals, Bays and Rivers, Whath are ery many.
S.E. from this Entrance of the Lake of Nicarasua lics the Ruce loorapa, and the lland l'engua in the Mouth of it, bumabout is is.

The Rewer licapua lics juft within the Illand rumning from the Pronince callat the l'bigus. the Port is very gond. but the thand 15 foul, and theretore you mutt not depend upon ir, or any place abosit it, for a Rond: The beft is on the W. and S. Sdes iownds the ?lain, where youmay ride under Shore in $\because$ oto gia. Youare meded biaf here from the $N$ and cafterly Whds, whichare the moft volent uponall this Coaft.

## efitions for the Bay of Honduras.

runs cut into On die S.lW. lie the hawn. cy are low and Shore: and on $\%$, or the . $1 /$, -
at the extreme x Entrance m5 l.s ditt trom w;iad.
jea, lic ficoral m Cap: (i)ala m . Thete are, nd the tartheit bouts. = The ands. i. Rohnce great refort Coaft, lie the o dmall Illands Vorstun N d'ses N. and
lics S.W. from ; fcreral ways, ic Mourh of it. n, docs not beis berwen the ? or the Entrance a (iluatiren, or the Country to the great lake, , of which we chowever to be icls lail up this y'd on cmploys vigation, cxcept c Lake, we can ys and Rivers,
:aragua lies the he Mouth of it,
nd rumning from very good, but depend upon it, is on the W. and c under Shore in N. and cafterly Coalt.
to the Mouth of

Prom the E. Point of the Enteance into iouto fint calied
 bold Chancel bewecn them and the Shore. The like there is to the catlward of the Baftimentos, where the Wind being: wofterly, youmay fland thro with great latety.
 your lathoard fide, and you may anchor there in 7 la and half, only that you wall lic a ittele open on your N.W. Quarter, if the Wind floould happen to come in that way: To remady which, a little firther to the W. is the Road of Alseca, which is much better lecured, and large enough for 8 or 9 Ships, but not for more.
A. 12 . You go in here about half a Mile to the weftward. but run out by a narrow tho fate Channel on the E. fide of the Road towards Nomere de Dos.
You lic here land-lockid alfo by two or three pretty large Iflands, and feveral fimall mands befides thote mentionid, and Whichat Sca make like part of the Main.
$\therefore$. R. The Wind generally blows Trade here all day from the E. and off Shore all night.
Here is another Road alfo calld (irota, where you may anchor in - Fa. and where there are no Rocks or Shoals, or leis than 5 ta any where near it: The Road gocs in W. by S. by a very crooked Paffuc, but you need not come back by the fame Chanel; for there is another Chanal more to the N . which tho marrow is fate, and wheh there is no where lefs than 5 Fa the Wind gencrally blowing large out.
N.B. Your bift anchorme at the ba/timentos is, when the great Rock Ciequder bears abour a boat's length for the Cidy; there you have - Fin. allo in the Olfing; when the Cias are WS.W. at the diftance of 2 Ls from you, there you will have 2 ; I.s. Water.
In the Mouth of the Harbour going into the Rafimentos you have alto 15 Pa and at a long flat I/hand, a litte to the callward of $y^{\prime}$ oin Belo, which is full of Mangrove Trece, you have 8 to :0 Fa. very good Ground, hut to leeward tis flat and foul, as mex be fion by the Breakers; and all about the Ithads 'tis the haine ; to that in the Road jou muft not anchor within half a 1 . of the Ifland.
S.S.E., off of the Harbour of Perto belo, or rather from the Cape caftward of Porto Bel, lics the anticat Port of Nombre de'Dios, dift. from the Entrance into the former near 20 Miles.

Nombre de atios lics at the Botrom of a large deep Bay; to the R : fide the Bay is wide, and there is good anchorms' any where in $s$ to is la clean Ground; but cis a bad Road in orher accounts, denecially as it lies open to northerly and northcatterly Winds, and that in a Country where thote Winds al. monl always bow, and which, whon they blow hard. brug a high Sca into the bay, and make it very bad riding.

On the W. fide of the Bay a fimali River cones in ; and without the Bay a lutice to the wethward lie two or three fimall lahads, whely you mut hal betwen if you would go into the
havegivena Defeription in its place; it remains however to be added, as proper to this Part, that large Veffels tail up this Ruce, and into the Lake, and the 'Trade carry'd on cnploys many Ships; but as the Spaniards admit no Navigation, except their own. and we have no exact Survey of the Lake, we can gwe no Defeription of the Depths, Shoals, Bays and Rivers, which are very many.
S.E. from this Entrance of the Lake of Nicaragua lies the River 'row, being about is I.s.

The River $I_{\text {irasta }}$ lics juft within the Illand ruming from the Province elled the limigus: the Port is very good. but she I!hand is foul, and theretore you muft not depend upon it, or any place about it, for a Rond: The beit is on the W. and S. Sides cowards the stain, where you may ride under Shore in $\therefore$ to g la. Youare indeed tafe here from the $N$. and cafterly Winds, whichare the moft violent upon all this Coaft.
E. from lipastars the Coalt trends away to the Mourin of the River C':ayr, the molt noted River on this Coaft, and confidering how narrow the grand Iftbmus of America is at this piace it is of a long Couric, for it is navigable by large Barks and Brigantines, within s L.s of P'anama on the Shore ot the Sonti, Jeas : The Uletulnets of this Navigation to the Commerce of the Country, and the Bufuels that is carry'd on here. Wheh is io very confiderable, is not to our pretent purpoic: as they liffer but vory few liuropear Nations to go in here, ets needlets to lay there are Pilots to guide them in ; but fir thote that are admitted, the Pilots are always ready.

From the Cbaje the Coaft gocs away for 7 Ls Fi. by N to Yorto bell, or $\%$ orio Biln, a llace famous in Trade as well as in War; it is the beft Harbour, and of the moft importance of any on this Coaft, as it is of ufe for the fimropean Shipping for the Trade of the Souti' Seus, but perhaps the wort for health ot any inhabited part of the Wond.

Thic Harbour is capacions for any number of Shipe, and tioc Depth fufficient for Ships of any Burden: It is laid to receive 12 Rivers into it; we do not lind fo many in any of the Charts or Geographical Deferptions of the Place, nor are thote Rivers "hach sill into it confiderable, the greateft being not tanigable for Slupe.

The Entrance mino this Port is commanded by two flong Forts, and the Harbour by two more. After you are in, you may anchor m6 to \& Fa. good Ciround, and clote to the Shore, and 1 n 10 to :1 Fa. in the Road farther off; 'tis all clean, no Rocks or Shoals, or Dangers of any kind.
L. from Porto Belo he the Kievs or Rocks called the Riefimentos, leated as on purpote for the forming a convenient Rond for Ships of War, to cut off the Commmication between Porto Pic! and Cariasena, no Ships being able to pals in or out of the former without beng feen from the fidiomentos. Betuen the Illand and fome Rocks which lie S W. youmay ride With a whole Flect of the largett Ships, having is Fa Water, and יoll fectred from all Winds; but there is a Riff of Rocks offot the Batimencits, wheh youmult take care of when you go ia, you wall find it in Sounding.
however to be Is tail up this d on cmploys igation, except Lake, we can s and Rivers,
rasua lics the Mouch of it,
running from cry good. but lepend upon it, on the W. and under Shore in and cafterly Coaft.
the Mouth of his Coalt, and America is at gable by large on the Shore igation to the at is carry'd on ur pretent purVations to go guide them in; ways ready.
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Ships, and tisc faid to receive in any of the ec, nor are thote catcit being not
by two ftrong you are in, you te to the Shore, is all clean, no
alled the Rafionsenient Road , betwecn Poro pals in or out z/imentor. Bcyou may ride is Fa Water, a Riff of Rocks re of when you
you have s to 10 Fa. very god Ground, but to lecward tis that and foul, as may be feen by the Breakers; and all about the Illands 'tis the faine ; fo that in the Road youmult not anchor within half a 1 . of the mand.
S.S.E. off of we Harbour of l'orto lielo, or sather from the Cape caftward of P'orto Rill, lics the antient Port of Nombré de'gios, dift. from the Entrance into the former near 20 Miles.

Nombere de gias lies at the !ottom of a large decp Bay; to the E. fide the Bay is wide, and there is good anchorms any where in $g$ to \& Fa clean Ground: but tis a bad Road in other accomts, elpecially as it lies open to northerly and northcalterly Winds, and that in a Country where thote Winds al. molt always blow, and which, when they blow hard, brms a high Sca into the Bay, and make it very bad riding.

On the W. fide of the Bay a fmall River comes in ; and wirhour the Bay a little to the wettward lie two or three fimall Ithands, which you mutt fail bewecn it you would go into the Bay. Great Ships uted to untoad part of rheir Cargo at the firt of theie Inlands, and then go on to the fecond; but fimall Ships commonly lic within all to umload.

It the Wind blows hard, Ships ride here npon Life and Death, with five or fix Auchors a head; for the Sea cones pouring into the Bay with tuch fury, that they are in danger of Foundering as they ride; oftentimes their Cables are cut by the Rocks, and they are in the utmof hazard of going a-fhore : For this reaton the great Ships left the place; and even ftill, if Ships have buffel's here that requies any long thay, they will choote to ride at the Raftimentors, or at Porto Belo.

The W. Point of this Bay is thoal off; to that you muft sive it a large Birth, or youmay be a ground. As yougo into the Port, you will lee a high Rock bearing N.W. from the W. Pont; you mult hail in under this Roch, then you go free of the Shoal under the W. Point.
S. by I.. from the Cape of St. Blaize lies the River of Piars, bearing from the Inand calld the Corda off of Pent d'athe W.N.W. dilt. from the llle of l'mis 5 Miles, and from the Ifland Gorda to the E. cud of the He of Pines is 7 Miles: There are aboudance of fmall Rocks and Breakers, and foul broken Ground upon al! this Coatt tor qols, as well cattward as weftwark, nor can yougo in betwecn the two Illands, tho 7 Miles alunder; but you may hail in at the E end of Pines in ${ }_{5}$ Fa. and to pation N.W. wo the Ifland it felf, and anchor under the S. fide of it.

From the Ruver of 9 'ines to the lfland of 'pizes the dith. is 5 Mike, the Courle W. by S. and E. by N. There is a thir Chmacl berween the Mand and the other Rocks, mentiond above, and the Main ; bur it is a Paflige only for Stoops and fimall Veffels, not for great Shipe.

The River of l'me's is an mdiferent larese Rever, confidering the Coaft ; but there is only of Foot Water on the Bar, tho when you are over, there is 3 Fa a good way up.
W. a little northerly is the Rucr alinhelles, difl. from the


## Sailing Directions for the North, Coas

There is inded a little farther N.N E. from it a Channel among the Rocks, but it is very dangerous, and the Soundings uncertain, from 5 to 9 Fa. And W. from the faid River about 2 LS is another Creck of no Name or Importance ; but 6 Ls W. by N. lies $A f$ firnfion River, which is a River of Bufincts, and navigable for Sloops and fimall Craft above 20 Ls into the Comery, tho not at all for great Ships.

The Rocks and broken Grounds which reach along all this Shore to Ciolden or Giorda l/land, are calld the Sombellocs. From A/cenfic: River the Land trends away to the fouthward, and then W. andafterwards to the northward to Point Som. be!!!, which is duthant from the W. Point of the River is L.s.
From Sombelly the I.and trends away to the fouthward again ${ }_{5}$ Mites to the River Francifio, and to the northward 4 Miles to St. Blaes Bay, and from thence as before to Nombre de 'f)ios. On the other Hand it trends away E.S.E. towards the Giulplo of 'l a atath.
Had the Siots Settlement at Daricn continued, and been form'd meto a Colony, as others of like kind have been, it is not to be doubted but that the Coalt of the Gulph had been critically lurvey'd; and it had been of fome Ufe, to have taken an Accomit of the Shoals, and Depths, and Capes, as in other Places: Bur that Affair is over, and the Place is become the lame uelefs neglected Port as it was before

The Gulph of 'Thation lies from the Point of St. Blaes S.E. and S.E. by S. it is fituate in the very Center of America, and. at the narroweft Point of the Ifthmus: 'Tis a wide finlet of the Sa, flictclung it felf in depth N. and S. full 60 Ls: The Entrance lics in Lar. 9 d .9 m . The Opening gocs in S. by E. at a Mouth of no lets than 10 Ls wide, between two Capes or Points; that to the caftwand is calld Cape St. Sebaftian, and the weftermont is call'd Cape Tibmon, or Tuberon.

At Caper St. Selbaftian the Spuniards had formerly a City, callid by the tame Name, but abandon'd by the Inlabitants for the unlualthinets of the Place, occafion'd by the inceffant Rams and Calms which continue here; a Caution which, as was alterwards found, bad been well given to the Soots before
their Atter of it.

The Poir therefore $t$ flrctches on dangerous.

The Gulf going in, $y$ you may rit decp and $\mathrm{fa}_{3}$ trance of tt to ${ }_{3} \mathrm{Fa}$. Gulph, and reduced to cloring on Ground, bu
From the rower there, large Salt-lal 12 Fa. and $"$ of about 3 the S. Point not to go fa which runs But after yo What oth not to ourp them ; 'tis try has bec fage over the South 1 . the way cal from the I . L.and. In Ifthmus. to the Navigat Illands of

## Sailivg Directions for the North Coaft of South-Ame Mouth of the River Oroonoko inclufive, to the

 HE River Oroonoque. or Oroonoko, can be no farther concern'd in our Defeription of the Coaft of Alncrica, than as relates to its Opening, and cmptying it telf into the Occan; the Navigation of it as a River having never been enquir'd into fince the famnus tho unhappy Attempt of Sir Walter Raleigh.
The luflux of this mighty River is in Lat. 9 $\frac{1}{\mathrm{~d}} \mathrm{~d}$. It may be faid to have many Mouths, occafion'd by feveral Inands which lie in the way; but there are properiy two Channcls, (that is
gucretta; an and 'P'unta Cubasua; t contequance

There is Ifland Mar was a Calt On the E. ct gether. but the lland
uncl aandings r about It 6 Ls ufinefs, to the
all this bellocs. :lward, It Som; Is. dagain Milcs ntric do rds the
d becn n , it is 1 becn etakcn n other ne the
es S.E. $a$, and. t of the he Enoy E. at pes or min, and
a City, nts for ccffant ich, as before
their Attempt, if they had becu cool enough to have accepred of it.

The Point of St. Sebaftian is foul, and has a Shoal lying off; therefore thofe that go in here, give it a good Birth: It ftretches out N.W. by N. into the Sca 10 Milice, and is very dangerous.

The Gulph is navigable for large Ships far in ; and when going in, you are got to the weftivard of that Spit of Sand, you may run up the Gulph ar Will where you pleate ; 'tis all decp and fair, but 'tis beit to kecp Mid-Channel. In the Entrance of the Gulph you have 40 Fa. at 2 Ls within it flooals to 30 Fa and then to 20 , which continucs for 20 L.s up the Gulph, and after that 18 Fa. up to the farther End, where it is reduced to ${ }_{4}$ Ls in breadth. All this Iength there is good anchoring on the E fille of the Gulph in \$ to 10 F.t. good toft Ground, but the $W$. fide is foul and rocky.
From the Bottom of the Bay the Chamel which grows narrowes there, goes away N.N.W. 3 Las into the Opening of a large Salt-lake, the Mouth of which is 3 Miles wide, and his ${ }_{12}$ Fa. and when paft the Entrance 4 Fa. The Lake is a Round of about ${ }_{3}$ Ls in Diameter; if you would go in here, kecp the S. Point aboard; or if you kecp off Mid Channcl, be fiure not to go farther off to the N . for the N . Point fits a Sand, which runs off above a quarter of the way thwart the Channel: But after you are entred the Lake, the Chamel is gnod.

What other Rivers or Lakes there are within this Lake, are not to our prefent purpofe, Navigation being little concern'd in them ; 'tis cnough that keeping to the W. aid N.W. the Comntry has becn found fill of Rivers, and that atter a narrow Pat: lage over Land to the Rio Sancta Maria, the Entance into the South Sta has been found, which is but a litete way, and the way eally ; for they tell us tis polifible to pafs to \% $\%$ from the Lake of Nicaragua at the dift. of 15 Niles only orer Land. In the mean time, as this is the caftermoft Point of the Ifthmus, fo here may properly be taid to end our Accome of the Navigation of thetc Bays, and therewith of the Coalt and Illands of North-America.
of South-America, from Bocca del Drago at the inclufive, to the Gulphof Darien exclufiee. oaft of empryof it as ice the
gucereta; and on the N. fide of Mar rucereta, betwecn the Ilinaid and Pumtad del Rey, are two fimall illonds calld Coetzan and Cubarua; the laft is the biggelt, bue neither of them of any confèquence.

There is good anchoring in the Bay on the infide of the Ifland Mar Gueretta, but few Ships freyuent the Coaft. There was a Cafte to defend the Road, but it is now demolith'd. On the E. cnd of the Mland are many finall llands, for ot to. gether, but of no moment ; they lie betwecu this Illand and he llaud Tifligos.

## Suiling Directions for the North Coaft of South-Am Mouth of the River Oroonoko inclufive, to th.



HE River Oroonoque, or Oroonoko, can be no fariher concern'd in our Deficription of the Coaft of Anitrica, chan as relates to its Opening, and cmptying it felf into the Ocean; the Navigation of it as a P iver having never becn enquir'd into fince the famous tho unlappy Attempt of Sir $W^{\prime}$ alter Raleigh.

The Influx of this mighty River is in l.at. 9 ' ${ }^{\text {d }}$. It may be faid to have many Moutis, occafion'd by feveral Inlands which lic in the way ; but there are properly two Channels, (that is butewo) which are known in Navigation.

The Pilots tell us in their Language, that the Mouth of this River is Laid to take its Beyinning from the River Amugora, and to reach to the River Scbarim, and from thence about to the River Corobuma.
This Account of theirs is to be explain'd thus, That the River divides it ieff into feveral Branches far within the Country, and comes down into the Sca as if it were a Collection of many Ricers. But we mult give the Account as they hand it to us, or Sailors will not fully underfland it.

Thefe fereral Rivers coming all into the Mouth of the great Orooncko, afiitt to convey the main Strcam of that River into the Sca: Some of thete Chamels are paffable by warping up by mann frength againft the Current, which is very firong; III chers it is to fierce, there is no ftemming it ; and in fome there is no Bottom, fo that no Anchors can be carricd out to warp by.

The principal Chamels found practicable are thofe of Sabarimand andsonde, or Caribobana; the laft lics in, N. by E. and S. by W. and this Branch or River has two Channels, which aftervardmect again at the Illand of Trinidade in the Mouth of the grand River.

Cape Sultizas on the Main, and the N.W. Point of the Inaud Th midude, makes the W. Paffage of the River Oroono$q^{n c}$; and this is that the Spaniards call the Gutplof of Paria.

In tim Pafige are feveral finall illands, and they again divide the Stream of the River into feveral Branches; as the Girat Rocco, which is the callermont, and the Little Bocin, which is the weflermoft: The Gireat bocco is about Gun-thot wide, but no Sominding, no Ground at $3^{\text {co }}$ Fa. The Little Bocco is almofl as wide as the other, and has Ground at 50 to 60 Fa .

The next Land to Cape Salinas is Cape Tres Puntas, or Cape Theree Points, lying from Cape' Salimas N. and Noby E. And from Cife Tres l'utas about 40 I.s W. by N. lics Punta dicl Rev, or Rava. From C.ape Sillutus to Cater Ravathe dift. is 70 LS : Berwen them lies the Ifland Margucitia, or Mar:
gucretta; and P'unt Citbas!ua; conféquen

Thare Ifland $M a$ was a C On the E. gether, b the Illand

Off fro fland Cubn ny Ships ${ }^{1}$ there is, 'tis the lefs

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## of South-America, from Bocca del Drago at the inclufive, to the Gulph of Darien exclufive.

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untas, or N. by E. es " ${ }^{2}$ unta the dift. or Mar-
gucretta; and on the N. fide of Margucretta, between the Iflasad and P'unta del Rey, are two fimall lllands call'd C'oetza and Cubajua; the laft is the biggelt, but acither of them of any confequacnce.

There is good anchoring in the Bay on the infide of the Ifland Margueretta, but few Ships frequene the Coaft. Thero was a Cafte to defend the Road, but it is now demolith'd. On the E. cod of the lland are many fimall Iflands, 7 or s to. gether, but of no moment; they lie betwecn this Inland and the Illand Tefligos.

Off from the S.E. fide lics a Shoal, reaching towards the ifland Cubagua mention'dabove ; 'ris a dangerous Sand, if many Ships were to come that way, but as in the little Navijation there is, the Fair W'ay lies chiefly on the ocher fide the Point, 'tis the Icfs confiderable.
There is likewife a Bank, which lies from the W. end of the Ifland 2 or 3 Ls; but as there is always 6 to 8 Fa. over it, there is no need to note it as dangerous. Formerly this Inand was frequented by Barks from Cartagina for the Pcarl fifhing, but 'tis now worn quitc our. The Ifland is moderately high Land, you make it gencrally at the dift. of 6 to 8 Ls at Sea: The Coaft is bold, and you go into the Bay E. half a Point S. having 7 to 12 Fa . Warcr.
Under the 'Punta del Rey is a famous Salt-pond, and on the E. fide of the Point is a good Road, where you have 4 to 5 Fa. betwecn the Point and the Ifland call'd Coetza, mention'd above.

The Ifland Marguevetta is in Lat. it d. N. On the W. end of it lics the Ifland of Tortugas: As youmake the Illand, you may lee both the Ifland Margueretta and the Main.

Tortugus is a dangcrous illand; all the E. Coalt is fonl, rig. gcd and rocky, full of broken Land and d.anjerous Clifis, not fit for a Ship to come ncar: On the $W$. indeed it is a letemore acceffible, and there is a good Road under the N.E. Poine. The W. end is full of Trees, which reach almolt to the middle of the Illand.

At the S.E. Point alfo there is a good Road, and there is a Salt pond, which, with a great Quantity of wild Gours, is all that is to be had here; for it is a maked Phace on all Accounts.

Bocca del 'Drat, is laid to take its Name from the turions Curient of the River Paria, or Oronnozur, whech braks out here into the Sca, and which (the Inand Ti fuidet repelling its Current, which would otherwite take iss Courfe due E or at moft N.F. into the Occan) is now turn'd arsy to the N and makes its way our N. and N. by E. by this Caye.

to W Cource is $\mathcal{N}$ halt E．alon＇s the Coalt；and between the llands call＇d the Tiplesor，and the roged Shore calld Tres l＇wntas W． ot the Cupe，the I and lalls in S．and makes a kind of Biy， and an Mhud call＇d dt \％irm，or St．Fohn：The Land is hilly and foul，thll you come near the Salt－ponds，then it is a low lanl and that Shote．

When you ate at this Pome，youhave the Inand Margeterta to womdisad．In lahny ahons this Coall come not nearer than $1=$ Fis the Sombagh ancuncertain，and the Ground flat and uncen ；to that you will not know where you are by the J．cn！，cxept you arebound in for the Read：Then you ma＇t work it out hy carenal Somdm：．To the E．of the lome
 fablider to he had there，or m leis than；Lstrom the Point． ＇i has analld the Contot limzmbl，and by fome New（ira－ made：but N＇w Gialdadics farther up the Country beyond theがいくが．
the li．andot the Salt pond is fecp hogh land，and the S． ad N．patis ：m in amone the Halls，to that they ate mot feen nenothe Coatt：＇Tis what they call a natural Salt Po maction or bond and is to great，that a thotland sail of shipe miant lond lece andmotary te baltaway．Allthe way from the fond to the Rond where the shopsode，is hard and fony，and the Ground in the Rean is not good；but to the catheard the G：ound is goon！Ithere is allo another Salt－pond calld the Lash＇rent，where is wiy good whte Sale to be had：＇Tine Road：wod，there hema a lot Clay mux＇d with Sand．

From the \％ind Row thre runs out a Riff of Rocis near a $I$ ：ato the Sas：It you woud go into the Road before the
 A．a cood Buth，to en clear of thole Rocks．

Ol of thas Couth hes the mand of bienco．Without all the Ihmds riction＇dabove，and due N．from the W．cond of the
 fivalmall hands，or ather Rocks above Water，calld the $\therefore \quad \therefore \quad \%$ iss：And on the S．W．Pome lics a dangerous link Ianc，whin thound be wratly acmemberd．It you come fomenthonthatd．and defon to anchor under me blanco． yon mat lher to the W．ndeof the hand：You may hal bud．ly abe at the Pome as ucar as youpleale，tis bolif and fin！tho：Whan you com：to the W．fide，you have a good

 tin ：it less．i．V．from the ！hand Gratath，and from the
 a！．The Pond in anol，bat here is nothing to be lad of Retrethmen，wfoth Water，but wha Goats．
i－wnemon Ruthe Land trends away W．to a Coaft and
 ti：（inden of（ian ato and in that Culph the River calld Rio Sian comes into the Sea：The Gulph runs in 12 or 1 ；I．s． So：ne gom this and the Guph of Cimame moo one；and it may be juft，it they reckon the Ciuph of Cimanan to rum＋o Is

## for the Nuith $^{\text {Couff of South America．}}$

the Rove the the Ithands ソ＇untas W． nd of Bay， and is hally it is a low

## Wargurota

 not nearer the Ground cyou areby ：Then you of the fomit ；there is no in the Point． c No（门， ntry bejondand the $S$ ． are not leen t Prondaction pomish load om the poad my，and the caltward the ond calld the c lind：The San！．
Rocis near a ad beture the re the l＇ant，
thout all the cond of the his thand lic cr，calld tioc ngcrous lunk If you come HW blanco． on may hal tis boh and have a good
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onc ；and it
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to Wood and Funtick for Ohl Some About－I．s firm this Bay to the weftward he the lhands leatats；and on the $W$ ． Ponat of the Bas，about a I from the Man，and as much from thele dhande，lies a Shoal，which rume ofl in two Branches trom the Couft N．To awod them all，heep to the llands，there is a good Chanacl and denp Winter， $1=$ to 1 胡。

A－breath of the wellermoft Mhat there comes in a litte Ri－
 for a L into the I and，his，cmong to carry thall Boare，Ca． noes．Ur：but not hhps．I he Water alto is not good，tho not yute falt．

W．fiom this Crcek is a Bay calld Oichier，lut no good Ground for anchoring in it；W．from whin is Cape Caflene， en the E：Ride of which is a Bay woth a onkerable Road．From this Cape there les a Ledec ot Rocks above Water．From the W．Pont of the Bay besims the Cont of Carichien，or accord－ ing to bome fitmerede，and excending it felf W＇．ro Cawe

 Hocks，makes it to，otherwate the kocks are rather black than whute．
 fome call it Coro；and the Port of the City of l＇themia is
 bort of the City faracze，and W．W）the Vintrance of the great Lake or Buy of daracesho，of which in its phace：So Chat the whole Coat reaches trom Cape Alas and the Sa！t I an le about ：Is W Here alemay very gond Habours and Bays，but of tmall mportance，becatie ot a o，weral de－ cay of the Colmace，and of the Nownmon on thi Coatl．
 the Comic W．We＇us fiture on the seablore a letic to the catward of Cope li！nico，where there is a Bay，m whach there is good minhomg m wto 20 Fa and（which is very particular mandlace）at asell titadby iti Sutationt＂keep of the exccolinessa ell of the Sat，wheh uponthis Con！t is b oreat，and noon a Northerly or NEatlenly Wimdruns to very hugh，that a goad shpmay be m danger of founderng at an anchor．
bat in this Pay you may ride lecure；the Cape，westher with a spat of Sud running out from the NW．Pome of the Bay，breaking wh the force of the Sca：The I and up a thes

 the Coizuaturs．

Due W．from the Road of the Caracars，and behiad the Cape，is a hmall Rever，where you may have focth Water （wheh is very rate on thi，Cont ；but if youtce any of the
 Crueley，they thoot poothad Amons．Thas Riser is callidthe Man；and foom the Nouth of a，keepugy your Courte thil weflward，is motion Ruce callid the C．amen＇s，the Shore alt



 bobliy about the Pome as uear as you pleale, 'tis bolil and thersoo: Wlicu you come to the W. fide, you hase a good



 an : The Rond is goo., bat here is nothing to be lad of Ketrumanaí, ur freth Water, but whi Goats.

I +an\%mont Res the Land trendianay W. to a Coan and Gulfh of ('matha ; but there is lincoute agreat Gulph calld tha (inden if (...) arco, and in that Gulph the River calld Rio Gom comes into the Sed: Tlie (iulph runs in 12 or $1 ;$ I.s. Some jom this and the Guljh of Chatare moto one ; and it may be juth, it they recken the Gulph of Commato rum +0 Is Within the Land: But as Naigatonhas nothang to do with it fiofir m, we fhall liy no more to it.

Coon! Shap may go in as tar as the Town of Comaith. and the Depth 1 good; nor do we find by any Accounts that shere are any Dingers in the Gulph, goms in or out, but bhat are to be fecmabove Water.

The formatis will not admit Strangers to come to this Coaft to load Sat at Cape Rer : and onceticy atack'd and actualty
 they mohe bing a great Revenuc from it, and abundance of Simper to we this Cont, and brms Trade to their other Ports ato. So the Port romains unfrequented, and the Sale hes 1 m Heape wolls and good dor nothing.

F:m Somp, or rather the Giuph of Cumana, the Coaft -nes anso W. Ne and WN.W. bernecn a continued Rane of :hmes and the Ntan: The land is tull of loints and Capes ramene cout into the Sca, and conequently of Roads and Biys, Harbours and Culphs, tho they aregencrally but timall, except Co heremtact.

1. Theresthe Buy at utim. Which is very wide, but ont decpin, mor is there any phece of note in it: Thure is good
 a bortheriy Wm!
2. The bay of fan • $P$, in the Entrance of which lies a sTere Rock or thand, (for it is above Water) calld Boncts; and whone that le two more silld Conous.
$\therefore$ The bisy of kisacntana, where there is the beft Ground to ancior in. amplace betlecured of any Road in this part of


The weliermof Pome on this Couft is callid Buattras ; from thene: the Shore, which is all Rocks, falls off again to the 1.n hwand to (., mem: Buy, and to the Town of Commenthe, or as aneme whandy call it commerata. On the W. Shore of thas 13.15 is ,ery pood anchomg, and well helered, the


It you come lile lidimeo. Cou may hail tis bold and have a good
the Coblulb:rs and from the cinded is about ; to be had of
a Coan and t Gulph calld iver calld R: 12 or $1 ; 1 . s$. one ; and it ato rum +1.5 to do with it

1 of Cum: Accounts that a or out, but acto this Coant 1 and actually it : orherwile abundance of cir other Ports he Salt lics in
ma, the Couft inned Rance of ats and Čapes oads and B.I ©, (imall, except
wide, but ant There is good at allopen to
which lies a calld lion ats;
ac bett Ground 1 this part of a (hall lit.
cattras; from agaia to the - C.om mumell. 1 , the W. Shore heltred, the loud Sitifici-

Oll the čecima sitch of the Ses, what mpon this Cont is to serat, and upon a contherly or N Fanterly Wimd rums to sery high, diat a goid shy may be manger of Founderng at an anchor.

But in this Pay you may ride leare; the Cape, eosether with a Spat of S.and rimning out trom the N.W. Pomt of the Bas, breaking ofl the force of the Sa: The land upan thes
 Soa; and tome arcol Opmion it is as haghas lace lemerific in the Comatis.

Due W. from: the Road of the Cubables. and hehind the Cape, is a fmall Rocer, where you may have fiedh Water (whels is very are on tha Conft: bat if gou tee any of the L: d: wis, look to your lilies ; bor befules their Treachety and Cructey, they thout pondond Arrows. Thus Rivern callid the
 weftward, is amother River callidthe Commelid. the Shome alt
 from which weltwad he she llands lian has ata, where there is a Sale l'ond wheh tumbilics all the Coatl ; there inalsio a sood
 in ther loadiag of Salt.

Fum this River the Courfe lies W'S W. to the Bay of Tiv?
 fad mhand lying in between the lad Mland Parberofa and the
 and w:ll hacteded trom the Swell of the Sa, as alfo from the northoty and cafterly Wends, whach are the only dangcrous Windson thes Coaft.

Ftom the Buy of Trifo the Land having for fome tome tremsed anay northoly, and to the N.W. and N.W' by N. is
 of the Country, where you meet win no Tuwn or Race for
 the Sandy Cage; near whach, ia the Mourh of a lmall Buy, is the thand of I Coquagta: Then the hat rounding agan NW. makes the E. Some of the Bay, or River of la ditua.
 risht off into the Sca; beyond which shenf farther W N.W. hes Cape Kimans, the molt remarhable Cape of Land on all this Coaft.

Benncen thas Shedf and Cape Romsino aretivo Places, but of fimallante: 1. Holes, a matl Hawn, where the Gound is good, but wath no focure radmg, becaute of its being open to the anthery. Wads. 2. (ion, where is a very good biy and Harbonr. Itom Ci, on the Coatt thrufts out mite the Sca tor many Le northerly, being the Coaft of the I'rosince of Core,
 calld allo the Cimph of limeate...

This cindph is noted for tes ruming above is I.s into the I.and, and widening to a very great beadth, ator it has gone
 gation in lich a manaer, that the Sulums have latelc Ociafon

## Sailing Directions for the Nort

to inquire after it, the reft being practicable only by Sloops and Barks, and fuch fmall Craft as the Spaniards build in that Country.

From this part of the Country of Cocn, or the Caracas, the Coalt gecs away more to the northward, as I have faid, to the Mouth of the Gulph, and then falls off again to the S. and S.W. to the Coalt of la Hache' and St. Nlirtha, having but little notice taken of it by the Pilots, the chief Navigation here being among the Inands rather than to the Contment, Which are tome of them in the Poffeflion of the European Nations, tho not of the Spaniards.

Thete Illands lie rang'd in a Line parallel with the Coaft, and trending from the S.E. to the N.W. from the Bocca del Yimso and the Illand Margueritta, to the Inland (Oruba, at the E. Point of the Gulph of Maricaylio, or Veacæuche.

The firt of thote lllands, except thole fpoken of already, is that of Orchellat: it lies at the diftance of about 15 to 16 Ls N.W. from the Illand of Tortugas, in Lat. in $\frac{\mathrm{d}}{2}$. it Atretches N.W. and S.E. about 8 Ls in length, and the N. fide is foul and rocky. It is generally a low flat llland; yet on the E. fide a little hilly; there the Scamen often go on Shore to hunt Goats for frech Provifions, which they are in great want of on thele Coalts.

The S. and S.S.W. fide is a fair Strand, ftecp too, and fo bold, that you may almoft lay your Broad-fide clole to the shore. The Land is almort all faltith, to that here is no good Water to be had, nor indeed any thing elle, but Shelter from northerly Winds, and Goats Flelh; not a Plant or a Tree, no People, and no Trade.
W. and W. by S. from Orcbilla lics the Ifland la Roca, dift. from the Main about 24 Ls : and from Orchilla 6 to ${ }_{7}$ Ls. On the W. fide of it lie three or four very little Iflands, and fiveral Shoals and dry Rocks ftretching far S. of which you need take no other notice than to ftecr out of the way of them. Youmay fee the Main from thele little Shoals, being not above 7 to 8 Ls from the louthermoft of them: They are io fleep on the S. fide, that you can find no Ground, tho within Musker thot of the Land. On one of thefe Iflands is a high whire Hill, which feems to have a Down or Plain upon it, and is feen far off at Sca: They are all unimhabited, as is allo la Roca it felf, and are only ufeful, as they afford ufually good Shelter for Ships riding under the S. and S.W. Coafts of them.

The Illands of Ares, or of Berds, are a Clufter of fimall umpeopled Iflands, 8 or 9 in number, diftant from la Roca about io Ls W. by N. and E. by S. from thar Ifland, in Lat. is d. They lie with the Coaft flretching N.W. and S.E. it is very clear Ground round about them, and you may fland boldly in as you pleale execpe on the N.E. fide, where the Shore is foul, and where there are feveral Shoals, and Banks, Rocks under Water, and Spits af Sand, to that you mult by no means come near on that fide, no not within 3 I.s at leaft.
W.N.W. trom the Iflands de's Aves lies the Inland Bon Ayre, at much tine fame diftance from the Main as the other, being in the fame Lat. $x$ iza. in 12 to $12 \frac{1}{2} \mathrm{~d}$. and dift. from des dive's about ic l.s.

There is a low flat Forchand feretches out from it on the $S$.

## as for the North Coaft of South America.

le ouly by Sloops crds build in that
rthe Caracas, the I have faid, to the ain to the S. and rtha, having but chicf Navigation to the Continent, of the European
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ken of alrcady, is about 15 to 16 Ls $11 \frac{1}{2} \mathrm{~d}$. it flretches N . fide is foul and et on the E. fide a hore to humt Goats grear want of on
ftcep too, and fo d-fide clofe to the ar here is no good , but Shelter from lant or a Trec, no
flland la Roca, dift. Orcbilla 6 to ${ }_{7}$ Ls. - little Illands, and ir S. of which you of the way of them. oals, bcing not ahem: They are to Ground, tho within c Illands is a high - Plain upon it, and jited, as is allo la afford ufually good Coafts of them. a Clufter of finall at from la Roca aIfland, in Lat. is d. - and S.E. it is very nay ftand boldly in re the Shore is foul, 3anks, Rocks under t by no means come aft.
the Ifland Bou Ayre, ; the other, being in lift. from des Ave's
with the beginning of the day you may be before the Mouth of the B.y, and lo run directly in.
The Reaton of this Direction is, becaufe if you chance to mits the E. end of the Ifland, and fall to I.ceward, you will fiud it hard to fetch it up again, the Current always fetting ftrong to the weftward on ali this Coaft, and effecially ar this 1lland.

The Entrance into the Port or Bay of Curacao is nairow ; but wher you are in, it is fufficiently wide for any reatomable Number of Ships. When you are in the Harbour, you will find on your Srarboard fide a blind Rock, which you muft take great care to avoid. If you have a feanty Wind to go into the Bay, you may neverthelefs run up into the Wind, and fhoot in by degrees : And tho you fhould bring the W. Shore aboard, you neced not be concern'd, for 'tis all good Ground on thas fide ; only be ready with a Haufer in your Boar to go on Shore, and make falt a-fhore on the $W$. fide of the Fort, for in the Entrance of the Havea there is no anchoring at all.

The Haven or Harbour reaches in N E. and S.W. and you may lic any where ar your pleature, atter you are palis'd the Entrance: And as to the Fort, it is $;$ Ls from the S.E. Poine within the Mouth of the Harbour ; there you may carcen, and lic on Shore juft where you will, 'tis all good: The Habour is able to reccive 100 Sail of Ships of any Burden.

W by S. from Caracao, and ditt abour 's or 9 Ls from Cape Romano, lics the Ifland of Aruba, or Aroba, being the laft and weftermof of all the Iflands upon this Coalt, betore you come to the Gulph of lomezuclu. There is a good Road under this Ifland on the N.W. fide, ncar a Point of Land, where you will fee another Ifland much lefts than this, and which you mult Icave to the N.W. as you go into the Road to come to an anchor. In this Road you have ; Fa. tandy Ground; but, cxcept that Road, there is not one Spot of Ground fit to drop an Anchor in, much lets to moor a Slup in.
It is a fimall low Illand about $;$ L.s in Circumference. and has only two little Hills in the whole Place, one of which makes like a Sugar-loaf as a diftance. The Ifland lies duc N . and S . with Cape Romano, and is dift. from the E. Point of the Gulph of Venezucla about 7 to s Ls.
W. from this Illand of Aruba, and N. from the Gulph of Venezuch, in the very Entrance of the Gulph, lie the Illands of Moages, being 8 or 9 in number, ftretching in $N$ and $S$. the fouthermoft is the largeft, they are all (bur one) low flat Land and full of Trees.

Beyond thofe Illands, on the other fide of the Gulph, liss Cape Cogubiacon W.N.W. a little wellerly from the moft nor. therly of the Iflands; 'ris a low Cape, and goes off fmooth with the main Land, and within it on the Land fide is a high Rock calld Als Sicra d' $A \approx y=1 a$.
W. from the Mourh of this Gulph lies the Buy of Howdr ; yet the Courte is W. by N. and W.N.W. becaufe you make firt the E. Point of Honda, which ftretches out thwart a part of the Entrance in acrooked Bend like an Arm: The Bay is laree, the Ground good, a fair Strand, and an even clean Botron: 'Tis a detolate Country, void of Commerce, and peopled with a moft barbarous wild fort of Liadams, quite naked, macon-
netpontic s. ince, that yourcmmano uround, tho within Musket thot of the Land. On one of thefe Illands is a high white Hill, which feems to have a Down or Plain upon it, and is fecn far offat Sca: They are all uninhabited, as is alio la Roca it felf, and arc only ufeful, as they afford ulually good Shelter for Ships riding under the S. and S.W. Coafts of them.
The Iflands of Aves, or of Birds, are a Clufter of fmall unpeopled lllands, 8 or 9 in number, diftant from la Roca about 10 Ls W. by N. and E. by S. from that Ifland, in Lat. 12 d . They lie with the Coaft flretching N.W. and S.E. it is very clear Ground round about them, and you may fland boldly in as you pleafe except on the N.E. fide, where the Shore is foul, and where there are teveral Shoals, and Banks, Rocks under Water, and Spits of Sand, fo that you muft by no means come near on that fide, no not within 3 Ls at leaft.
W.N.W. trom the Iflands des Aves lies the Ifland Bon Ayre, at much the fame diftance from the Main as the other, being in the lime Lat. Vize. in 12 to $12: \frac{\mathrm{d}}{}$. and dift. from des Aves about 10 Ls.
There is a low flat Forcland ftretches out from it on the S. fide, and reaches to the W.N.W. fide : And where the Foreland ends you have good anchoring, only that the Shore is very ftecp, to that you may lic in 50 Fa . Water with a Headfilt on Shore. Here is a large Bay, and in the Mouth of it another Illand about 6 to 7 Ls in Circumference. Both chece Mlands are inhabited and full of Cattle, which brings a confiderable Traffick to them ; allo the Trade for Red Wood brugs many Ships from Cartagena hither every Year.
The Roakl is on the W. fide of the Illand, but it is a very bad Place, foul Ground and too deep Water; fo fteep too, that the Ships rude in 60 Fa. within a Stone's calt of the Shore. Frefh Water is alfo very rare to be had, the Earth in this Ifland (as in all the reft) being brackifh and talt.
W. by N. and W.N.W. from the S. Point of the Ifland of Ron Arve, lies the Illand of Ciricao, dilt. from Bon Ayre, s Ls, but cafily leen in clearWeather. The Illand is about 15 Ls in length, and 40 in Circumfercuce ; and in Lat. about 40 m . more northerly than Bon Ayre.
It is tully inhabited and fully planted; and tho peopled by the Natives, is in the Poffellion and under the Govermment of the 'Dutch, who have here a fine Bay commanded by a ftrong Fort; the Bay is on the N.E. fide of the Hand. They have allo a Road for great Ships, well enough lecured, but the depth of Water is too great.
To know the Ifland of Caraceo at a diftance, take notice of a high Hill at the E. End of the Mhand, which has, as you come from the caftward, another Hill not to highlying clote to It ; and a 1 . from the haid $E$. end of the main Ifland lies anorher low lhand, flectehing out towards the Shore; which low lland you mutl take great care of, if you make the Pore in the night; and if you would go into Cirracao, keep off ro the caltorard, and it it be in the Night be fire to lie by, to that
no, tho withm ands is a high in upon it, and as is allo la d ufually good afts of them. lufter of fimall om la Roca ad , in Lat. 12 d . S.E. it is very fland boldly in e Shore is foul, s , Rocks under no means come
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$f$ the Ifland of Bon Ayre, 8 Ls , abour 15 Ls in bout 40 m . more
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Tnke a sugar-foaf at a ditance. The flland lics due N. and S. with Cape Romano, and is dift. from the L. Point of the Gulph of Venczuela about 7 to 8 Ls.
W. from this Illand of Aruba, and N. from the Gulph of Veuezuela, in the very Entrance of the Gulph, lie the Imands of Moages, being $S$ or 9 in number, ftrecching in $N$. and $S$. the fouthermoft is the largent, they are all (but ouc) low flat Land and full of Trecs.

Beyond thoie Illands, on the other fide of the Gulph, lics Cape Coqubacoa W.N.W. a little weiterly from the moft northerly of the Illands; 'ris a low Cape, and goes off fmooth with the main Land, and within it on the Land-fide is a high Rock call'd Als Sierra d'Aseytc.
W. from the Mouth of this Gulph lies the Bay of Honda; yet the Courfe is W. by N. and W.N.W. becaule you make firf the E. Point of Honda, which ftretches out thwart a part of the Entrance in a crooked Bend like an Arm : The Bay is large, the Ground good, a fair Strand, and an cven clean Bottom: 'Tis a detolate Country, void of Commerce, and peopled with a moft barbarous wild fort of Iitdants, quite naked, uncon. verfible, and little better than Brutes; to that you mult take care how you go on Shore.

The Ccaft however is full of Bays, and Inlets or Crecks, where there is good riding, but no Trade, nor any Relief, and hardly frefl Water; and the Pcople taking all Europeans for Spaniards, will kill every one they can. The Bay of Portet? is next to tlat of Honda, all Places fitted for Shipping and Navigatina but frequented by none, the Coalt being intirely ?oid of Towns or of Pcople, except as above.

This Bay of Portete is narrow at the Entrance, but wide and fair when you are in ; the going in lics S.E. by E. Some teli us there is good Ground enough, but no depth of Water for great Ships: But 'tis not certainly known, nor is the Bay, or indeed any part of the Coaft, accurately furvey'd, the Depths founded, or the Dangers from Rocks or Shoals fufficiently difcover'd, here being no Commerce or People to make it worth the while; all that is known is only what has been taken notice of at a diftance, as Ships have lail'd by upon the Coalt. cither to or from Cartagena one way, or Cilliacao the other way.

By this Obfervation they can tell us of what is to t e een remarkable off at Sca, as of a certain high Rock wheh lies to the weftward of this Bay tome diftance from the Shore, as allo fome white Cliffs which the Sea beats much aghinft in ftormy Weather, and the like ; which high Cliffs they tell us reach the whole length of this Coalt amolt as fir as Cipe Vola. The Courte trom Cape Coquibara on the WV. fide of the Gulph to Cape $l \% l a$ is S.W. by W. and W.S W' and from the Bay of 'poitete' W. by S. a little wefterly.

Cape Vola or Vala, is the moft remarkable Point of I and upon this Coaft, becaute of its running out fo far into the Sea, fo that it is feenagreat way in clear Weather. As you come * PP from
 and feens to be a I. from the Shore at lealt; and medeed it is jomd to the Man but by a arrow Slip of low Land, which is mot feen at a datance.

Before you come to the Cape on that fide, there is a Bay, "here there is good riding tor fmall Ships only, becaule unlets you run tar in to ; and + Fa. Water. you are not fully ficurat from cafterly Winds ; otherwile you have $1=101-1: a$. Arther out. There is allo a good Road on the S. fade ot the Cape, where there is good Shelter in northerly and catteriy Wimds, which ordinarily blow Trade on this Coaft. The Coult thus fartends away S.W. but from the W. Doint of thas B.ay it turns more to the fouthward, towards Raiaclowa the firt l'lace in the Province of the R:o de la Hachs'.

Altho there are fo many good Bays and Roads for the Scenrity of Shipping, yot here is no manacr of ute for them, other thin what is calual for Ships palling by the Coaft, and thote arevery few : for as to the Country, it is the mof delolate Place in all this part of the World, being ucither inhabited by Man or Beaft; the very Surface of the I and yields neither Tree nor Grafs, bur is talr and dry, and to cutirely barren, that it furnifies not to much as Water to drink.

Rancraca is the firt mhabited Place on this fide from the Gulph, it lics in the bottom of a decp Bay, and the Courte to it from Cape ${ }^{2}$ oha is due $S$. 'tis a fimall filhing Town, and the Bay is large, where fithiug for Pearl Oyfters was once carryd on, and brought Inhabitants to the place ; but we do not find it is continued.

Yow: de Pidro, or Panta das Tedras, and Cape Iola, mane this Bay of Ramotera, the dift between the Points uenr 12 I.s. to that it is a very wade Bay; the Pomes trend out N.N.W. There are feveral dangerous Rocks which lie under Water, not tar from the S. Point of the Bay, called de Pedra: thote Rocks may be found by founding, and by the Breach of the Sea upon them, which makes a ternble notic, and is heard a great way.

Irom thas Point the Coaft turns more to the weftward, and the Conte to the Reo io ha Mache' is S.W. The River is large and the Eutrance far and deep; but it lics open wathout Shelur, to that the Sea comes tumbling in with a northerly Wind. The Coatt is all low and that from Cape Vola; but contrary to What is beyond the Cape, tis here all green and flourifhing, and accordingly Navigation comes in ufe, and Ships are leen in all their Ports, fome loading Salt, fome Red Wood, and others branging European Goods from Yorto Belo and Ciariasema.

On the E. fide of the Eatrance into the River La Hatoa, or La Hiche, lies a Bank of Sand which muft be carefully avoided by thofe who go in with Ships of Burden. On this Bank they ulded to fifl for Pearl alfo in former times, but ns now wornout.

Ships of fimall Draught may ride in the Mouth of the River in = f.a but if they draw more, mult go away to the Bay of Rambluera. On the E. fide of the City La Hatbe there comes in a Ruwulet of good Water, where the Ships fend their Boars
of $(\%$
Harbo Wh Coalt, you, that 10 A:con cone's.

Bet whenc $1 / a$, is The E off the Shurs

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## ons for the Norith Coaff of South America.

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c is a Bay, caute unlets ally lecurat 1B. turther f the C.ape, rif Winds, coalt thus thes buy it icfint lilace
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Cape Iolu, Points ncar es trend out -h lic under d de Péda: ic Breach of and is heard

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 fully avoida this Bank ut 'tis now
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the Bay of there comes their Boats
of Chima, or Chonaca: but netither of thete atord any good Harbour for Shippug

When you come out of the Sea riht $N$. and $S$. with this Coatt, you tee a white landy Strand lymen to the weftward from you, there is no other luch or like it. On the E. fide of that fandy Shore lics a high black Point of Land called the Ancomes, with leveral fmall l'oints between, called allo ancone's.

Between thefe lie the City and Port of St. Martha, from whence the whole Coalt takes its N.mme. The Bay of st. Martha is a very good Road, well lecured from northerly Winds: The bett of the Roadlies behme a taall Illands, which break off the Sea; to that howerer volent the Turnades biow, the Shys nde behind them.

Here the spaniads treyuently caren, and the Place is convenent tor that purpole, the Bay being large, and the Ground goodevery wherc. Here allo you have Wood and Water in dbundace, which is the more remarkable, becaute there is no Water, and but hetle Wood at moll of the Ports on this Coatt. All which thags put together, make St. Martha an extraordanary Harbonr The Rucrallo is very confiderable, rmming far into the Country, and recoiving many imaller Rivers moto ir, fome of which are navigable for mall Boats, Canocs, Ër. tarther than the mam River.

It is defficult to find the Entrance of this River when you come to it from the Sca; for there appears only a long pomt ftretching from the Coaft, as it it were a Head-Land or Cape, making a bay. But youmut pasis this Cape, and fland in to the weltward of it ; and then you will tee the openms of the River on your larboard fode within the loint. In order to pals this Point, keep a hitele out to deaward, or rather put out to Sea atter you have made the P'ont: you will know it allu by a great Hill called the Sienta de Lamba, lying on the W. fide of the Rucr.

As toon as you come about the fand Point, and open the Mouth of the Rever of St. Matha, you wall fee an llhand, wheh as it wereblocks up the Entrance of the River; but as you come nearer, you will find 'tis only an Mand, and you may tan round it on which fide you pleate to go mon the R1ver: it is called Ille de Verd, or Circen Illand. It the Wind fhould blow to hard at E as it often docs, that you camot gat about the lland, you may come to an Anchor under the Off Point of the !ad. between that and the Pome of the Main mentioncd es : is, on the other hand, if it overblows from the "id. or S.W. you may go mader the mide of the lame Ithans withon the Mouth ot the River. In both which places thete is good Radag in $\rho$ to 7 Fa and well locur'd.
W. from the Rio de St. Mavila lies the River and Harbour, and alio the Point of Kambis, or Sambu, called $\%$ 'mina de Kamba by the spanards, from the Momutam mention'd above. You wall know the Entrance of thes Place by a vay hioh Hill, as it wore hangme juft over it, callad the Masity Cimat: Thete is alfo mother Token to know it by at a

and the Futrance fair and doep; but it lies open without Shelter, to that the Sca comes tumbling in with a northeriy Wind. The Coalt is all low and that from Cape 1 ola ; but contrary to What is beyond the Cape, 'tis here all green and flourilhing, and accordingly Navigation comes in we, and Ships are feen in all their Ports, fome loading Salt, fome Red Wood, and others bringing European Goods from P'orto Belo and C'artasem.

On the E. fide of the Entrance into the River La Hacba, or La Heche, hes a Bank of Sand which mult be carcfully avoided by thote who so in with Ships of Burden. On this Bank they uled to fill for Pearl alfo in former times, but 'tis now worn out.

Ships of fmall Draught may ride in the Mouth of the River in : Fa. but if they draw more, muft go away to the Bay of Ramblora. On the E. fide of the City La Hache there comes in a Rivulet of good Water, where the Ships fend their Boats for tocfh Water, the firt they have for fome way on this Coaft. The Mouth of this River is barrd to 12 Foot; but when you are in, 'us decpenough for any Veffel of Burden.

From the River La Hache the Coaft reaches out W. and then S.WI. to the Riser Buchia or Busk. Berween them lic the great Mountains, or rather a Ridge of Mountams, called the Sarvat Nacudus. The River is very rapid, occafioned by the Frefhes trom thote Halls; the Force of the Current is fuch, as tpoils the Navigation of the River, to that no Ships of Burden can go up there any lengeth.
W. fromethe Raver biara lics the River Ton '7)iso, which is the greateft on this Coaft: There are leveral Rivers come n between them, as particularly the Riser Poras, then the Y'athomons. From the River Bugia the Courfe is W. by S. and the Coath is all foul and full of dangerous Rocks; nor is there any Harbour or Road of note for Shups to take Sheler in.
$\therefore$. 13 . The Deltances of Places are feldom let down in any oi the Accounts given of theic Coafts, at leaft not with that accuracy as to be depended ipon; no exact Survey having been taken of the Land any more than of the Sea, and the Latitule beng much the tame.
Nor are the Dangers of this Coat lets from the tempentuous Chmate, than from the rocky Shore, the Scas being excecding bonteross, and the Tomadoes bo trequent, that 'tis very rare to fail along thus Coaft without mecting with them, which having fiv or no Ports to run into, renders it very dangerous.

The Spamatrits call all this Country () I'dno cit Cordona, and the Momatains which lie in a Ridge W. from Surva Natadas, A: \% d de sembro: concerning which Mountains the Spramf), Sabors tell us, that when they are clear, and to be feen without any Clouds hanging on their tops, you may depend upon a Som bong at hand; and they liy it never fails.

To the wetward of the Reser 'Dieso lies a dimall River called Anesia de Giaceo: aud beyond that, farther W. is the Bay
enmertis titge a without Slichortheriy Wind. at contrary to and flourithing, Ships are feen Wood, and ocelo and Carta-

## r La Haclon, or

 :arcfully avoidOn this Bank , but tis now th of the River to the Bay of - le there comes cond their Boats ; on this Coaft. but when youies out W. and ween them lic untams, called occafioned by Xurrent is lich, Ships of Bur-
(7)icso, which al Rivers come "rar, then the is W. by $S$. and ; nor is there Sheleer in. down in any leaft not with cxact Survey an of the Sca,
c tompeftious ing excecding t'tis very rare m , which hadangerous.
4Cordona, and ra Naciadas, as the Spanifl) be teen with. depend upon s.
nall River cal. W. is the Bay
you come ncarc, yot will hint tis only an Ifland, and you may lal tomed it on which fide you pleale to go into the River: it is called I/le de Verd, or Green lland. If the Wind fhould blow fo hard at E. as it often docs, that you cannot fot about the Mland, you may come to an Anchor under the Off Point of the fland, between that and the Point of the Main mentionedabove: as, on the other hand, if it overblows from the W. or S.W. you may go under the mfide of the lame Ifland within the Mouth of the River. In both which places there is good Riding in 5 to 7 Fa . and well $\mathrm{l} \cdot$ cur'd.
W. from the Rio de St. Martlia lies the River and Harbour, and allo the Point of Zamba, or Samba, called リunta de Zamba by the Spaniards, from the Mountain mention'd above. You will know the Eutrance of this Place by a very high Hill, as it were langing juft over it, called the Madru Ciawh: There is allo another Token to know it by at a diftance. $u$ tis. that above 6 l.s from the Shore off of this Bay the Sea looks white and thick, as if fome mudly River cmptied it felf with a turious Current: 'Tis allo known by the Soundings at Sca, for at the dift. of \& l.s you have $; 0$ to 40 Fa. loft ouzy Ground.
W. of this Point of Zamba lics a Bay called by the fame Name; and juft before it are four Ithands called the Arenar, which render the Bay an excellent Shelecr for Ships in cales of Diftrels. Ict it come from what quarter it will; for you may run in cither round or between them, and anchor almoft where youwill.

Thefe In.uads alfo break off the Foree of the Sca. which as I oblerv'd goes excecding high on all this Coalt, efpecially with a N. and N.E. Wind, which utually blows longett here and with the molt Violence. Indeed you have leldum any other except in the Tornadoes, when fometimes the Wind boxes the Compads in lefs than two hours.

In this Bay you have excellent Conveniencies for carecning and reparming your Shups and Boats, good freth Water, and Wood in abundance. As for the Sca, bring the Inand Zambia to bear S.S.E. from you at the dift. of 2 L.s from the Shore, you have then good gradual Soundings trom 15 to 25 Fa.

From the Chenas Iflands the Coaft trends away S.W. to 'Punta Canou, or 'Point Canoo, called to, becaute it makes at Sa like wo Canoes joined together. The Courle to this Point is W.S.W. by reafon of many Rocks and Dangers whin lie m the way, fome under Water ar the ditt. of $=$ Lis from the Shore; which makes it very necettary, unlefs you are well acquainted, to keep a large Otfing, eipecially when yougo a about the Point from the caftward, or if you come from $\mathrm{C} a \cdot$. tagena.

To the W. of this Bay, ftill lying along the Coaft which holds on W. lies the Bay de (iutto, another sood Retreat for Ships, but renderd the lets aleful by the nearnels of the other, which is to very latge and geod, that notheng beter can be defit'd.

## Sailing Directions for the North, Coaft

From this Pumt, Camon lie off the noted Shoals called Tie Nigerello. This Point liess in Lat. it d. 5 m and to the W. of Point Comin the Shore falls off into a great open Bay, which hav no Ilace of umportance in it ; hut being a mecr Strand, fitrectics out W. to a Point called the Little Cano:, from whence the Land trends inward agan, till it makes the E. Point of Ciat tagerna; there the whole Coalt may be find to end.

Cantacima hes ma deep Bay; may, the Port of Cartagena takes up the Bay, for the City is man lland, only in onc part of it: The Entrame, or rather the only navigable Entrance men the B.ay, is at the W. P'art ; for the Bay lying almoft due E. and W. paralicl with the Sca, is feparated from it not by the Man, but by threc !llands which lie in the Front of it ; one figure, called the Kiares. wheh is the wellermoft of the three, on wheh is the Fortaltffi, and makes the W. Point of the Port, or Cutrance into the Road; one long, which ftretches E. by $\therefore$ from the E. Point of the Entrance, which is called I/l.i No. ca; and one triangular, which is the caftermoft, and on Whath the city of Cartageta flands. It is teparated on the weftermoft Doint from the Ifla Nova by a fimall Chanuel of the Sca, but not navigable: and is joined to the Main at the two other Augles by two Bridges : The Ciamels over which they lic are not navigable, to that there is no entring the lort but ar the Opening between the I/fia Noza and the ifle of Kares.

On the W. cud of the I/la Nova, making the E. fide of the Port, are two ftrong Forts which lic N.N.W. and S.S.E. of one another: the firlt near the Point oppofite to the Fortalifa on the the of Kimes, is called forto Granado; and the other at the ocher Point, liorto des Indies.

There are alfo two other Forts on the S. Side built upon the Main; and as they lic upon the beft of the Channel, to they are Guides to your cntrinh, as well as Guards to the Entrance: one is called Eiorto de Manfinillba, and the other Forto Zelito: The laft is to the cafthward of the firtt, and oppofite to the W. Pome or Angle of the City.

Before you come to cuter the Port, there is a good Road even in the open Sca under the caltermoft Point, where giving the Land a Imall Birch, you may ride in 5 to 6 Fa. with gradual Soundugs off to $r_{2}$ Fa. Ships ride hicre for a Wind, as they do on the Coaft of Eiugland in the Dowus, to go in or out.

The Entrance into the Harbour is S.W. from this Road, lyiug between the wefternoft and the middlemoof Illand; 'tis a fair open Hathour, and bold, having no Dangers but what are fico, and in the far $W$ Vay, which is Mid-Channel, inclining to the W. fide, from 11 to 16 Fa.
Till you are a-breaft with the fecond Forr, your Courfe in is Sors by W. After you are palt the fecondfort, there lics a Shoal called the Alaso, or the Alasos, that is, the Flats or Shallows, which fitctches out near S.S.E. towards the Main: kecp along thy that Shoal to the Point of it, and then ftecr up the Chamel due E. or E. by N. keeping in 9 to to Fa. by your I.cal, whect you mufl have conttantly going; and fand over io ro the Pont, palfing clofe under the Gums and Plarform of
of the Port you do trot

If you co Salmudina, the Entranc duc S . or at run in at the the Chanuel much freque

The Coun this excellen all the N . C Rains, viole make both S and they dic Coalt. Fron lics S.W. T the River $M$ any Town or

There is St. Barnarid of a large Ba for Ships; ; of courfe the

The Chan lad St. Gion N.E. The tween them lics a Shclf o Channel, w

After you you muft hau There are a to the caftw Road, you Rocks. As ferve, that i ing off in 7 bring a Plan Bay, at the and the W. 1 are in the bo The W. Poi Sca above al
W. from

Entrance; made of its rection abou

From the S.W. by W to the S.W a Shoal of and go out : Ifa Fiorta:
d $D^{\prime}$, of the Port; then you are in no danger of the Salmadina, if W. of rhich rand, from Point
as'lla e part rance Ot duc $y$ the ; onc three, Port, E. by
 id on in the of the ctwo they rt but ares. f the $f$ onc Ca on her at
on the they ance : Zclito the
oad c giving h graud, as in or you do trot keep too far off.

If you come from the weftward, you may run clear of the Salmadiua, by kecping a Ls off from the Illand, till you make the Entrance into the Port of Cartagena fair open with you, due S. or at moft a litte wefterly. Or if you plate you may run inat the Chanucl of the Bocrachia W. of the Mie of Kares. the Channel is fate, and there is Water enoogh, tho ti is not much frequented.

The Country is not inviting for any Strangers, were it not for this excellent Port, which is, whone exception, the bolt in all the N. Coaft of Somtb Ancrica; but otherwite the conftont Rains, violent Heats, and frequene Tornadocs and Tempefts make both Sca and Land very uncaly to our l'uropean Semmen, and they dic in great Numbers if they are kept long upon this Coalt. From the Port or Entrance into Cartagena the Coalt lics S.W. There are feveral timall Bays, and fome Rivers, as the River Matarea, but no places of Bufnets for Shipping, or any Town or Harbour upon the Coatt worth notice.

There is indeed a large Bay and Harbour at the Mands of St. Barmard), which are five in number, lying in the Entruace of a large Biy, and which make the Bay an exectlene Hathour for Ships; for the Entrance going in amongtt the Illands, it is of couric dhelterd from all Winds that can blow ; for example,

The Channel goes in N.W. between the outermoft Mand calIed St. George's; then ftretching behind the Ifland, it turns N.E. The innermot Illand is called St. (iisbuther ; and between them is a third called the Gocree; and on the ofif fide lics a Shelf of Sand, which breaks ofl the Sea, and iecures the Chamel, which is decp and good.

After you have paft a rocky mand called the $W$ efferiofft $C$ dy, you mult haul in E. by S. and E. for the Road of Cirand Biom'. There are allo four or five fimall Cies above Water, which lie to the caftward in the Faur $W^{\prime \prime} a y$; and as you cone nearer the Road, you have at latt a whole Kiff of fmall Cays, that is, Rocks. As you go mto the Road called the Grand Brat, ob. ferve, that in going about the Point yougive it a Birth, Keeping off in 7 to 8 ta not nearer by any means: in doing the bring a Plantation, which you will fee upon the Land orer the Bay, at the very bottom of the right of it, to bear N.half W. and the W. Point of the outcr Cidy to bear W. hatf N. then you are in the belt of the Road, and may anchor in 7 Fa . N. $B$. The W. Yoint of the outer Cay is higher, and is to be feen at Sca above all the Cavs which lie without ir.
W. from thefe llands lies the River Cibent, having a wite Entrance; but as there is no Survey taken of if, nor any wic made of its Chamel as we can learn, to we can gre no Direction about it.

From the opening of this River the Coaft treads S.W. and S.W. by W. and from the Illands of St. Bamar.h it lics near it to the S.W. From the W. Point of this River there rums a Shoal of Sand, which mult be avoided, both as yon go in and go out : and juft within the Point lies a limall lthand called I/at \%orta; there is no good Auchoring about it, the Gromed bome ill meddy and roo lott.
the hand a fmall Birth, you may mome 5 to $o$ Fa. With gradual Soundengs off to 12 Fa. Ships ride here for a Wind, as they do on thic Coalt of Eingland in the Dowins, to go in or our.

The Eutrance into the Harbour is S.W. from this Road, lying between the wellermoft and the middlemoft Mland; 'tis a fair open Harbour, and bold, haviug no Dangers but what are ficn, and in the fair IVay, which is Mid-Channel, inclining to the W. fide, from in to 16 Fs .

Till you are a-brealt with the lecond Fort, your Courfe in is S or S. by W. After you are patt the fecond Fort, there lics a Shoal called the dixo, or the Aivas, that is, the Flats or Shallows, whech ftretches out near S.S.E. towards the Main: keep along by that Shoal to the Point of it, and then fteer up the Channel due E. or E by N. kecping in 9 to 10 Fa. by your l.cad, whect you mut have conftantly going; and fland over to to the P'ont, palfing clote under the Guns and Platform of the Fort $1 /$ lay $/$ imbllor ; then come to an Anchor on the S. Side, beeween the Platform and the other Fort called Zelito, or Ziltil, which is allo upon the Main; there you ride fecure from all Winds as in a Millpond, and are within fight of the City W'alls. Here the Galleons ufvally ride, and Nerchants Ships: The Men of War ride lower off of the fort des Indier, but may come up hither allo it they pleale, for there is Water cnough, and all clean firound and late Riding.

Otio of the lile of Kere's, a little out to Sea, and lying S.W. from Cartagena, lies a link Rock called the Smimedmar, which is dangerons; an Engli/h Man of War called the Inntir ftruck upon it and was in danger of being loft : it may be known by the Breach of the Sca upon one part of it for about thirty Yurds; but the Hunter ftruck upon the Tail beyond the breakins ot the Sca, the Pilot lippofing he had been clear of it.

As you come from the eallward, you have nothing to fear, nor any Rule to obferve, but to come no nearer the I/fa Now than GFa and lal boldly by it moto the Roadmentiond above, mader the \%oust de Ciamain, and then turn in for the Chamel
ilig off :11 bring a Pla Bay, at th and the W are in the 1 The W. Pc Sca above
W. fron Entrance ; made of i rectio: abo

Fom th S.W. by W to lie S.W a Shesi of and go out Iflu liovita bcing all m S.W. fro many Iflanc in particuia like a Torte bout a $L$ fr it makes at

The Lan Mountains high Hills, edW. by N. Gulph of $\%$ nierica joy being that
N. B. A near thole I of the Gulf and lics due Tharien to (Dios, as 1
higra－ nd，as ，in or d，ly－ ＇ t is a jat are clining fic in is c lies a rhal． kecp up the y your d over orm of S．Side， そil－ c from c City Ships： cis，but ＇atcr c－

S．W． which －ftruck known thirty break－ it． of far， ，Noで above， hannd
ing off th 7 to s ra．not neat oy any me．ms： 11 domy thes bring a Plantation，which you will fee upon the Land over the Bay，at the very bottom of the right of it，to bear N．half W＇ and the W．Point of the outer Cay to bear W．half N．then you are in the beft of the Road，and may anchor in 7 F．a．N．B． The W．Point of the outer Cay is higher，and is to be leen as Sca above all the Cavs which lie without ir．

W．from thefe llands lies the River Clbent，having a wide Entrance；but as there is no Survey taken of ir，nor amy utc made of its Channel as we can learn，to we can geve no Di． rectic：a about it．

Fom the opening of this River the Coaft trends S．W，and S．W．by W．and from the Illands of St．Barnarth ir lics nearef to he S．W．From the W．Point of this River there runs a Sho．l of Sand，which mult be avoided，both as yougo in and go out：and juft withu the Point hes a linall lanand called I／la Fiorta；there is no good Anchoring about it，the Ground bcing all muddy and too lutt．

S．W．from this Illand lics the Ifland Torturas：There are many Illands on the Coalt of America of this Name，but this in particuiar the Spaniar ds call to，becaute，they thy，＇ris thap＇d hike a Tortoilc，which the Spaniards call Tortusa．It lics a－ bout a L from the Main；and unlels the Weather is very clear， it makes at a diftance as if it joyn＇d to the Main．

The Land over againlt it is called $\mathrm{P}^{\prime}$ unta de＇To elrio；and the Mountains behind it，for the Commery is full of extriordinary high Hills，are called Siorra de lento：which Land lies extend－ cd W．by N．and W．N．W．till they join with the E．Point of the Gulph of Daric＇s．And to you have the N．Coatt of Soith A－ nervica joyned to the fouthermoft Land of North Ambirica， being that called the I／thmas of＇ 7 ）al ieit，where we lett off．
$\wedge^{\prime}$ ．B．As the Land has generally lain along $E$ ．and $W$ ．or ncar thote Points，from the Bocca del Draso to this E．Point of the Gulph of $\cdot 7$ ）arich；to from hence it turns to the Nurth． and lies duc $N$ ．and $S$ ．from the other Point of the Gulph of T）aribel to the Point a little thort of the City of Somber de Dios，as has been tully detcribed．

## Sailiug 'Direitions for the Eaft Coaft of South River de Amazones, to the Rizer Oroonok Pilots or at prejent navigated by Europcans.



S this Coaft is but very imperfectly furveycd, we mult tatisty our felses with picking up fuich Frayments as we can find and phace them in the leet order we can. The beft that can be hand of thas Part is, that as it is but fieperficially lurveyca, fo it is a Coaft but litile ulad by simporans.

The ' $D$ ucts' inded hase one Colony on the Main, upon the River Surinam, where they have a Fort and a Town called after the Name of the River; but we hate no Accome of any other Eitmopians, who hase planted, or at lealt continced their Plantations, bewecn thofe two great Racers.

The firt Account we find of the Conalt relates to the making the Land. When any Sluip bound thither from Singhan/defigns to make the Head. I.and of the Rio dimazomes as his fint Port. the Directions are as follow:

- If you are bound for the Coart of Cithum, and would take - Your Departure frum the Liadrd, thape your Courfe firt in - the tame Latisude as you do for other larts of the $W^{2}$ eft $1 n$ -- dess aize for the Cianavy Ifands, will you cone into Lat. ‘f Ad kecping about 60 to 70 Ls to the weftward of Cap:
- Fmilhere, which lics in Lat. +3 d. or thereabout: Then - Atecr away S. by W. That Coute will carry you without, - thas is, to the Wethward of the Illand of Malera, which lies
- m Lat. $1 \mathrm{~d}=\mathrm{m}$. Then go away S.W. by S a litete wett-
- crly, and that Cource will leid you clear of all the lllands, as
- weil the Cimanas as the Cape deliod Ihands, and carry
'youquite away to the Coatt of South Amerrala'
人: /: About the Lat. of thofe lfands you will begin to fall in with the Trade-Wmds, aza the N.E. which blow conAtantly from the fame Pont, or with very hetle Variation : and, except in the Trasadocs and Hurricancs, for cight or nane Mombs at leatl. But you may obterve, thar they difler at tome time of the year from what they are at other tumes; and fometumes they go farther one way, fometimes another; and the farther youkeep to the northward, the more variable you will find them to be.
If then you find the Trade-Winds variable, you muft fhape your Courfe a litele more welterly, ull you find your felf under the I.ine, or ncar it ; but as loon as you are palsd the Equator, Atecr awdy due W. and that Courfe will bring you fair with the Mouth of the Rio d' Amazon's, which lies jult under the Line.

The Entrance into that River, one of the greateft in the World, opous to you N. by E. and from yous. by W. or ehre.bouts, tho the Head-I.and of the W. Shore of its Channicl l:cs due N. and S. and is therefore called the Cape de Noord, or the Nor:h Cape. The only Danger of that Courfe then is of fallung too much to the weitward of the Mouth of the River, that is, in Lecward of the Cape; in which cate youmay have grat Difficulty in barang it up againlt borl Wind and
them. liesth the m River me or River
l'our As the R there gron tcondn Ond whic wide

## for the Eall Coafl of South America.

## aft of South America, from the Mouth of the great iver Oroonoko, fo far as is furve, ed by any Englifh Europcans.

resed, we , fuch liagthebed orof this l'ut d. 10 it is 1
iii, upon the win called afount of any It continucil
, the making Linstan / deirs his lint
d would take Courlic lirlt in the $l^{\prime} \mathrm{f} / \mathrm{ln}$ Inme into lat. ward of Cif" bout: Then you without, ra, which lies a little wolthe lllands, as 1s, and carry $a^{\prime}$
I begin to fall ch blow conle Variation : , for cight or c, that they are at other $y$, fometimes rthward, the
a mult thape our lelf under the Equator, u fair with the ider the Line. reateft in the S. by W. or of its Chanape de Noord, courle then is th of the Ricale youmay oth Wind and
them. Thele two are fix I.s afuader; and - I strom the haft lies the litele (a:purous). Note, that all thede Risers come into the man Chanul from the W. But as from the Mouth of the River Arroway the Shore gecsaway N.W. or W N.W. trendme, on a lime hanads the Bouth of the ()roonoen; fo all the Rivers atterwards come meto the Seatrom the S.W. or near that J'oint.

As I liid above, the Shore trends to the N.W. and moft of the Ruers take their Courte from the S. or S.W. The firt of thete is the River Alriary, wheh is large at the Opening, but frows narrower farther m ; where there is another Rwer exicudne: ut ielf louthward, but only mavisable for maller Veffels. On the E. fide of the Ruer An atoy, or Alricary, lies a Bank which you thould be carctal to then. 'The Raver Arracary is wide and large, reaching far in within the Land.

On the W. fide of this Ruer lies an Outlet or Arm, as the
 I'a, which branches it lelf every way, like as the other Rivers do, and is navigable erecy way. The going mro thie River is much like that of Areazary, that is, that atter tinting \& or 5 Lis up the Aricary, there lie fix Imall Ilhads, directly oppofite to which lies the Rwer W'ipoco.

In going moto thas River, keprta Hill called Cirir right a head, and tio run up till you cone to ; or + Fa Water, and then drop your Anchor, fote Clay Ground, where you may side withtatety. There are very few of the Lands hereabout mhabited, to there can be no great occafion of Shippins.

From the opening of this River the Coall trends NW. to the River Capforiallco, or fle'raideque; it is an indifierent large River, with an lland lying thwart the Fontrance: and all round the Illand lies a Bank of Sand. After you are run in 5 to 6 Ls , it is divided into 2 great Branches, one to the fouthward, and one to the wellward.

Off of this River lies a Clutter of very high Rocks. you may lee them a or 5 Ls offevery way; they are called dec Conftables. Your Courle enther tor the River's Mourh, or alones the Conft, is berween rhele Rocks and the Main; and you mis anchor alfo within them in $f$ to o Fa open with the River: to that yon may go directly up the Chanmel. It you are bound in, keep the W. fide of the Channel, and you cannot do amils.

A little to the weftward of Cappersercio hes a fmall narrow River called Cianeo, on the caftermoll fide whereof lies a thank of Sand. To fall in, keep along the W. Shore, there you have 2 Fa. in the Entrance ; but after youare m, there is 5 to 6 Fa. far up. All thes Coaft, from the Xorth C'ape to the River Wia, you have foft maddy ouzy (iround, otherwife tis a clear Coaft as to Rocks, and the Somondings good. On the W. Shore

mue Drombs at heaft? But you miny oblerve, that they difler at tome time of the year from what they are at other tumes; and tometumes they go farther one way, fometimes another; and the farther youkeep to the northward, the more variable you will find them to be.
If then youfind the Trade-Winds varable, you mutt fhape your Conite a littlemore wetterly, all you find your felf under the line, or near it ; but as loon as you are palsid the Equator, stecr away due W. and that Courle will bring you tair with the Mouth of the Rio d'Amazones, which lies juft under the Line.

The Entrance into that River, one of the greatelt in the World, opens to you N. by E. and from you S. by W. or thenbouts, tho the Head-land of the W. Shore of tes Channel lacs due N. and S. and is therefore called the Cape de Noord, or the Nor:l ( ape. The only Danger of that Courte then is of falling too much to the weltward of the Mouth of the River, that is, to Leeward ot the Cape ; in which cate youmay have great Difficulty in beating it up againt both Wind and Current, and fometmes it is not to be done.

There is one way to recover this miftake, if you are not thot too far to the Lercuin, !, and that is to put into, and rum thro' the Channels of cin roxians. 'This is called another River, and is dullmet from the $R=w^{\circ} d$ Amazomes: the Mouth ot it lues abour iz L.s to the wethard of the Cape de Noort. Some will have it be a branch of that great River, and it may perhaps be fo, tho you go thro' many orher Chanacls betore it brings yon out, aid at laft it talls mon the E. fide of the Pome, but wathout the Chamel of the mam Riser: to that it is rather an Arm of the sca, making the great Mand Ciapor, than a Branch of the Ruver : but be at wheh you will, it you can by the help ot the X.E. Winds flem the Current, and make your way thro' this Chanach, it cortainly brings you out within the opening of the ereat River, and at leaft is Les to the fouthvard of the North l'ome.

This Chamel begmang at the W. Point of the Mand Carfor, reaches m fitt S.W. then goes on S. then S.S.E. as the teveral Wimdeng and Reaches lead: then it goes away S and at latt opens mo the grad River, or rather, inte the Mouth of it NE. The caftermont Pont, wheh is the S.W. Pont of thellat d (affor, is called (afe showamy, from the Nime of tine Rucr.

In the Pafige of this Channel, or River, you have from \& to o Fa. Water, a mudy ous hottom ; and you mult be there to cone wan Aachor cever Tide, for the Ebb wheh tets out to the northward runs with fuch a rapid fury, that there is ano ftemming it, we not with a hard Gale of Wime, unlets it thonld bow a Storm ; and then it woald not be whout its Dangers on other Accounts.

In this Chamed lie teveral othor Rivers, which are navigahle allo, as the River // 'ars apoco about = Ls to the weftward, and
 but whtiout Towns or Trade: to at is weedels to delinibe

5106 ward, (1if lie the ble:
Coalt. chor a that yc in, hco mit's.

A lit River of Sand = Fa, it far up. Wia, Coaft a of this chere at we the
S.W. River Main ; is not Strengt Watcr

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thint they re at other lometines iward, the mult thape relf under e E.juator, ur with the r the Line. teft in the by W. or ins Chan-- ie Noord, rle then is of the Rifie youmay I Wind and
ou are not o, and run ther Riser, Iouth of it rori. Some ay perhap; c it brimes Point, but is ratl:cr :an " 1 , than a you can by make your within the the fouth-
mand Cor S.E. as the Nay S. and the Mouth V. Pome of c Nanc of
ave from. nult be lure ich fect out there is no Ets it thould ts Dangers
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5106 l., it is dereded into a great Branches, one to the fouthward, and one to the weltward.

Clf of this Rever lies a Clufter of very high Rocks. you may Se them or o Ls offevery way; they are alled the Comfables. Your Courte cuher for the River's Mouth, or alone the Contt, is beeween thele Rocks and the Man ; and you may anchor allo within them $\mathrm{II}_{\text {, }}$ to o Pa open with the Raver: to that you may go directly up the Chamel. It you are bound in, heep the $W$ fide of the Clamacl, and you canot do amils.

A little to the weftward of Capperaine lies a fimall uarow River called (ianco, on the caltermofl fide whereot lies a liank of Saad. To fat in, keep along the W. Shore, there you have 2 Fa. in the Entrance ; but after youne m. there is ; to 5 F.a. far up. All thes Coatt, from the Nom: ('ipe to the Rwer Wha, you have loft muddy ouny (iround, otherwafe ris a clear Coatt as to Rocks, and the Somdmes good. On the W. Shore of this River (imeo youwill lee a Town called (on:owion; there are lome finropeans fettled there, but we find no Shus we the Port, or very rarcly.
S.W. by W. from the Confables lies the Mouth of the great River I'm, which goes in between the Mland Coavana and the Man : 'ris a River of a very long Courle: the length mwards is not difioser'd, hut may be concluded to be grat by the Strength of the Current, and the greatnets of the Stream of Water which comes down.

The Ifland Ciman, or Cafunt, is named from a River of the fame Name, whith comes into the Sea on the other fide of it. and makes a very good Harbour, the beft m many repects on all this Cuaft : "is large enough to receive 100 Sall of good Ships, is well fecurd trom all Winds, and has a to 5 Fa. clean Ground, any where all over the Ruad.

On the liland fígamathere is a very large Fort, or rather a tortity'd lown, wheh has alto a fortrets within it: both are ftroneg by Simation, and the Works abour them very regular, rated by the $\%$ uth, when they had lotiction of the Nurth pait of lira!'..

The lland is mhabited by a fort of People called 5 b banes of the Rraldun kend: the fore is in thut Lamentege called Sobaldiob. Some Ships widual hete with we Fleth ot weld Swme, which curestory well, and is pickled and barrelld up as Pork is in Eilncfe.

In the Entrance mo the Road or Harbour of C'iama, you mult be carctil to kecp without four imall 1 Ilands whin le jutt off of the Town: The bett of the Road is to the S.W. of them

There are allo feveral fimall lands in the offies. dace $N$. from the Man lland, at the datt of $;$ Stom the shome, 2 : the Boo:, wheh is the weftermott ; and E: Liom that ditt. : L. is the Forlorn or Loft Ifland, bems a acat Rock only but they lay it was a large Illand, moft of whein islunk mot the Sca and lolt.

1-arthor

## Sailing Directions for the E

Farther E. abour a mile lies a long narrow Inand called the $l$ 'iader, or the fiather; and 2 LSE. by S. from the Father Ifland lies another long Ifland, and 2 little ones, called de Moder and de IJoghtors, that is, the Mother and the Duaghters: they are all litete more N.W.than thofe mentioned before, called the Conftablis, which lie in the fame Line S.E. from the Mother and Hangloters about 3 L.s. There are two of thefe latter, one called the Conftable, and the other the Conffable's Mate.

If you wouldrun in between thete Iflands and the Conflabics, youmult not itand righe thro' from the Sca with the Opening, but keep a more northerly Courle ; at Icalt two or three Points, becaute of the ftrong Current which fers in from the weftward between thote lilands and the Main, and which will withour luch Cinution drive you athore upon one or other of them, or oblige you, in order to avoid them, to run too far towards the Mann, and endanger your going allore upon the llland of Cajoula: and even with all this Caution you will have cnough to do to make good your Courfe, which ought to be in the Midway between the Iflands, $m_{4}$, 5 , or 6 Fa. Water. N. B. An E. or W. Moon makes full Sea ac thete Iflands.
From Ciajana the Coant lies E.N.S. to the River Caurora; there are three Iflands lie juft in the Mouth of the River: if you are bound in, you muft keep off from the faid Iflands, and go away to the wettward of them, and then ftand round in, with the Opening : the Channel of the River is good, and you may anchor in 7 to 8 Fa. limy Clay Ground.

From the River Caurora the Land thrufts out to the northward to the River Uracho, the Courfe is W.N.W. the Entrance is ou the W. fide within a high Point of Land, which makes far into the Sca on the Shore of the River. The diff. from Ciunvora is is Ls ; there lies a Spit of Sand from the callward P'oint which you nult take care to avoid. Having paft that Shoal by your Lead, the Entrance into the River is fate, there is 2 : Fa. in the Fiair Way. There is alfo another River betwecn them, called Rio Carazö̈iny; 'tis large and navigable, but of no great ufe, few Ships coming thither, except fome -Dutch, Veffels to load a kind of Wood tor Dyers ule, of a kind betw en the Brafil and the Logüood.
W. from the River Vracho hes the Bay of Arwacas. In the bottom of the Bay is a Village alfo called $A r$ rwacas: off of the Town there is a good Road for great Ships, and ihelter'd from S. and calterly Winds, but a little open to a northerly Guft, which brings in a high Sca. To the wettward of the Bay lies the River Amoma, a large decp River and navigable, not for Ships only, but for a great Flect if need were: 'Tis allo navigable far up into the Country, but no Trade requiring it, the Chamel is not founded; the only Deficicucy is, that the Reiver lying almoft ftrait in, without Reaches and Wiadiang, :as great Rivers ufually have, the Tide runs with fuch terrible Force, elpectully the Ebb, that unlels you can get to ride in fonic Bight, or in the Eddy of fome Poimt, no Anchor can hold you. Bur there is another thing which renders the Na vigation of this River lefs valuable, and that is, that there are no Towns or Pcople to be found on its Banks, or any Produce of the Country which fhould bring Ships to the Place.

From the Bay of Amona the Courfe lies N.W.by W. to the River Marvouitil, or Mordficuiny, another great and decp

Inland called the the Father Illand Icd de Moder and ughters : they are re, called the Conthe Mother and fthefe latter, one ble's Mate. nd the Conftabics, the Opening, but or three Points, oni the weftward nich will without ther of them, or 1 too far towards upon the Illand of will have cnough ight to be in the a. Water. N. B. lands.
c River Calliora; the River: if you id Illands, and go mad round in, with od, and you may
out to the narthJ.W. the Entrance nd, which makes

The dift. from from the caftward Having paft that River is fate, there another River bege and navigable, her, except fome yers ufe, of a kind
of Arexacas. In 1 Arwacas: off of hips, and fhelter'd ch to a northerly eftward of the Bay and navigable, not d were: 'Tis alfo Trade requiring it, cicncy is, that the hes and Windings, with fuch terrible can get to ride in t, no Anchor can ch renders the Na $t$ is, that there are ks , or any Produce the Place.
N.W. by W. to the cr great and deep

Ships have fome Trade, but chicelly for furs aid Dyere Woods.

From hence the Coaft trends away W.N.W. a fair clean Strand to the Mouth of the River Surinam, the diftance from A".n. rowiny about $=5$ Ls.

This is a noted Place for European Commerce, the Diatci, having a large Colony upon the Rivct, and confequently a great deal of Shipping, as well to the Pore which is in the Mouth of the River, as far up into the Country, and as fome fay above 40 Ls.

There runs of a great Spit of Sand from the E. Point of the Entrance, which goes tar into the Sca: Kecp well off at Sca before you ftand in for this Harbour, till you tec fairly into the Mouth of the River from the W. Point ; then fland over to the Point, and run in, you will have not above a Fa. there at low Water ; but'tis deeper when you are gotten in. The River is about $=$ Ls wide in the Entrance, and is divided into feveral fine Strcams, after you are in, all mavigable, and run. ning far into the Comery leveral ways: So that here is great Couvenience for Shipping, and leveral good Habbours; and the Trade being confiderable on this Coalt, moft of the Ships come hither as to the chicf loading Port. The bett anchoring is juft under the Fort calld the Zelandia Fort.

From Surinam the next Port W. by N. is Cupanuma, dift. from Bramao Point 12 Ls, and from the Mouth of the River Surinam 10 Ls. If you are bound from the caftward along this Coaft, you mull keep a large Offing between the River Commewituy, and Surinam or Cuppanama; becaule in the Midway lics a great Bank of Sand off from the Shore, reaching above 4 Ls into the Sca, and being near as many in breadth.

From Cupanama the Coaft liesW. 10 I.s to a tinall River, manelefs, but call'd by the Dutch the Deril's C'reck: There is a far Harbour and good anchoring in loft oozy Ground: Kecp the Fair Way Mid-Channel, in which you have 4 to 6 Fa. Water.

Four Ls from V'aln' Duyve's ('reck, fo the 'Dutchs call it, lies the River Barbiezos, the Coalt is due W. 'Tis all a fair Coalt, as before: In the Mouth of that River lics an ihand, bur the Entrance is very fair on th E. fide of it ; only you mult kecp off trom the E. Point, till the Mouth of the River opens duc S. from you; then you may run boldly in, having 14 to 16 Foor Water in the Entrance at low Tide.
From Barbiezos the Coalt bears out to the northward, to that the Courlí is N.E. by E. to the River Demiary, or Zlemerary: 'Tis a good Coalt, and good anchoring Ground all the way, the Shore plain and clear, with good Soundings from 7 Fa. to the very wath of the Shore. Your Entrance mito the Demiary lies S.W. by W. to that you muft go round a long, Point of Land, which makes the E. Pont of the Gulph of Eifutba. From the River Barbice, to fome Charts name is, to that Point, the diftance is 22 L.s. and thence to the Eatrance: into the Demerary 8 Is : The Courle to the Point, as above, is N.E.by E. and the Courle in the Fair Way, taken at an Offing of 5 Ls W. of the Point, is S.W. hy W.

The Channel in, is in the Midway; keep your Lead gome, and when you find it Foot Water to $=\frac{1}{2}$ Fa then you are within 2 Ls of the Mouth of the River. As yougo m, you will deepen che Water to 15 and 2 :oot gadually; and when
between the Bralil and the Logwood.
W. from the River Oracho lics the Bay of Arwacas. In the bottom of the Bay is a Village allo called Arwacas : off of the Town there is a good Road for great Ships, and thelter'd from S. and cafterly Winds, but a little open to a northerly Gult, which brings in a high Sca. To the weftward of the Bay lics the River Amona, a large decp River and navigable, not for Ships only, but for a great Fleet if need were: 'Tis alfo navigable far up into the Country, but no Trade requiring it, the Channel is not founded; the only Deficiency is, that the River lying almoft ftrait in, without Reaches and Windings, is great Rivers ufially have, the Tide runs with fuch terrible Force, elpecially the Ebb, that unlels you can get to ride in fome Bight, or in the Eddy of fome Point, no Anchor can hold you. But there is another thing which renders the Navigation of this River lefs valuable, and that is, that there are no Towns or People to be found on its Banks, or any Produce of the Country which thould bring Ships to the Place.

From the Bay of Amona the Courle lies N.W. by W. to the River Marrowini, or More/duiny, another great and decp River, the diflance from the River Uracho is 20 Ls , from Amona 16 Ls : The Mouth or Opening of this River is 3 Ls wide. On the E. fide of the River there lic a great many little Inlands, fupposed at firft thrown up by the force of the Current; but now the Set of the Stream lies in the Mid-Channel, inclining to the other Shore. There are alfo divers Rivers, which fall into the main River among thole Iflands, moft of which are able to carry good Ships, were there any Ute for them.

The man River is navigable far up into the Country, as fome tell us above 50 Ls , and has 4 to 5 Fa. Water all the way : Your Entrance is under either Shore, rather than in the Middle, for there lie two lilands directly in the Mouth of the River, with a Bauk of Sand running out to feaward. Kecp your Lead and Line in Hand; and going on cither fide. come no nearer than $+\mathrm{to}_{3} \mathrm{Fa}$. You may anchor on both fides in good hard Clay Ground.

From this River to the River of Surinam is a fine clean Strand, and a clear Coaft. Between them lics the River C.omme $u$ iny ; which tho it be a large River, and of a long Courle, yet irhen it comes as it were to the Sea from the South, it turns its Courle W. and runs into the Sea at the fanc Opening as the River Surituam, making an inland Channel fomewhat like the $\operatorname{Frifi} b a n f t$ on the Coaft of Prufia, runving parallel with the Sca for near 20 l.s.

But before you come to that River, lics a litele River call'd Surimina, or Sorominy; which tho a much fmaller River, is a very convenient navigable Channel, having 3 Fa. in the Entrance, and ${ }^{2}$ to 6 Fa within : The Entrance will make you cautious, for you will think you are running right a-fhore, a great round Point feeming to divide the River into two Channels; but palfing by to the weftward of that Bluff $\mathrm{S}_{\mathrm{P} \text { oint }}$, you will lee the River fair before you. Here the Dutch,

Arwacas. In rivacas: off of s, and thelter'd to a northerly vard of the Bay navigable, not wcre : 'Tis alfo ide requiring it, cy is, that the and Windings, ith fuch terrible 1 get to ride in no Anchor can renders the Na , that there are or any Produce ie Place. N.by W. to the grear and decp Ls, from Amolia $r$ is 3 Ls wide. wy little Iflands, ic Currant ; but 1anncl, inclining vcrs, which fall of of which are for them.
the Country, as 1. Water all the ather than in the tc Mouth of the fcaward. Kcep ther fide. come on both fides in
is a fine clean lies the River , and of a long a from the South, the fame Openhannel fomewhat running parallel
little River call'd naller River, is a Fa. in the En: will make you ; right a-fhore, a into two Chanhat Bluff Point, Here the Dutcib
as octore : In tic Mount of that River lies an ham, tit the Entrance is very fair on the E. fide of it ; only you mult keep off from the $E$. Point, till the Mouth of the River opens duc S. from you; then you may run boldly in, having 14 to 16 Foor Water in the Entrance at low Tide.

From Barbiezos the Coaft bears out to the northward, fo that the Courfe is N.E. by E. to the River 'Demiary, or $\mathcal{D e}$ emerary: 'Tis a good Coalt, and good anchoring Ground all the way, the Shore plain and clear, with good Soundings from 7 Fa. to the very wath of the Shore. Your Entrance into the Demiary lies S.W. by W. lio that you nuft go round a long Point of Land, which makes the E. Point of the Gulph of Efqueba. From the River Barbice, to fome Charts name it, to that Point, the diftance is 22 Ls , and thence to the Eatrance into the Demerary 8 Ls: The Courle to the Point, as above, is N.E. by E. and the Courfe in the Fair Way, taken at an Offing of 5 Ls W . of the Point, is S.W. by W.

The Channel in, is in the Midway; keep your Lead goiug, and when you find 14 Foot Water to $2 \div$ Fa. then you are within 2 Ls of the Mouth of the River. As you go in, you will deepen the Water to 15 and 20 Foot gadually; and when you are within the Heads or inner Poinr, you have ${ }_{4}$ Fa. which is the deepeft of the Channel.

The Dutch have feveral little Colonics within this River, and go up to them with Ships of good burden. If you are bound in, make a Signal, and the Dutch Factory will fend you off a Pilot, and bring you in; but you may come out again when they will give you leave, which you would do well to confider of beforc hand.

Four Ls from the Mouth of the Kiver Demerary lics the great River Efqueba; the Mouth of this River, as above, includes both, and therefore the Entrance is call'd the Gulph of Efqueba. In the Mouth of the River Efqueba lic three great inlands, the Laguaneca or Lagewaan, the Margaretta, and the Parrots Illand; they lie a-breaft of one another, the tirft to the eaftward, the laft to the weftward, and the other in the middle; and behind the 'Parrots Ifland lies the Ifland call'd the Troel: Thefe four Illands as it were block up the Mouth ot the River; but the Channels between are very clean andgood. tho not very decp. In the E. Chamel is the decpett Water : the two middle Channels are very thoal, one has at low Ebb but 6 Foot, at other times 13 to $1_{4}$ Foor.

After you are paft the Iflands, and go ue the Channel, Jots have Water enough : Then you mect with feven other himinds, call'd the Seven Brothers, and by lome only the scou ifiadis.
 Ihand, and three more calld the Thra' Brother's: Atce wheh the River fipeads wide, and is navigable a great way.

The two weftermof Mlands at the Enermece have lars: Shoals of Sand ruming out from them to feiward; to that you mult keep to the caftward, to lal in between the Mand $L a-$ gewadn and the Main, where you will have ; fat to 3 , with good holding-ground to anchor in if need be
*Q 9

On the W. Shore fir within this River, the \%nch have a Fort calld Sereacerall, becaufe bult on very high (iround; but you muth not venture up thither with a Ship whout a Pilot, the Channcls being very difficult.

If you come from the caftward, to make this Port you muft rum above the wothermoft Shelf, leaving it on your Larboardfode, and rom in berween it and two other mall Shoals, wheh lie more to the wothard flill: But take good hecd not to come ton near to a Shelf which lics oft of Lagewiana l/hand, and rmn $\mathrm{u}_{\mathrm{p}}$ between that Inand and the Main, leavite the Illand and allo the Shoal on your Starbourd fide.

When you ate abraft of the Mhand, you will deepen the Water to + . 5 and $; \div f$. Aho oblerice, that juft a-breaft of the lhand comes out a Spe from the Man, lying out a good way; but you lave room enough to leave it to the larb ard lide halt al, and Water enough; to keep in $;$ to o lat and youwill go clear.
W. from the Cimph of I/fmed lics the River 'Porma's, or $P$ bir $\%$ in: but your Courle is duc N. and at moft N. by W. till ycu make a long heh Point calld by the 'Duth Cape
 to the watward of the Shore, all the way from the W. Channel of 1 Mambe, or rather from the lowermont Point of the
 and fall of shoals alio far out from the Main; wheh Shoals begn from the Addiens liank off of the Rio Alubo, and reach more or lets all the way to Cape Naflim.

That firlt Shoal callid the daders liank, reaches as far as a Pount with a high Tree upon it, calld Cape de Hoe; the high Free fands on the N.UL. Pont of a fmall River, where you may fend in a boat for Refochments and Water, but muft not Way int have N. by reaclics

Cupe mukes byiN. a thite yo to you and bri the Op The Ships d Sctilem in it. not abo bound r'm, firft $V_{1}$

Ther Port, ; Ls, This lis in the
N.W Illand pooken

「ho but as Iuhabut git in whth a She. Offot the Cape de Moi a Shoal hes a great Amazones, to Cape Santa Maria, being the $N$ ints the Rio de la Plata, inchufiee.


S the Porturt: $/$ claim the Sovercingty of all this Coatt, from the S. Pome of the Opening mito the Rivcr of Amazones, and amex it all to their ColoBij of Brafit; to whether they poffets it all or no, as by our Account appears to be doubtful, 'us not material to the Sailors: "Tis fufficunt that they call it all the birat! (inifi, and we may deteribe it as tiech, without entring into the Quelton whether of neght it is to or no.
firmm Ciden Nourd, or the North Ciape on the Illand of Cirn$f$ :s, whel makes the northermoft Pont of the E. Shore of the Ras d'dnazotes, to 'P'muta de 'Pedras, which is the Heatfand or firft Point on the oppofite Shore on the Man of Simuti, it is by guft Mealure cither of the Land on Sca 75 Ls ; and to wade we may reckon the Mouth of that vatt River to be; madurnig clear of all the Iflands which lie within the

Beind is the $f$ Amaze, above the M .

Beto hard d from th the no board on the $5 t 08$ have m Rood f the Riv

## Tions for the Coult of Bratil.

is have a (iround; without a
t you mult Larboardals, which ot to come d, and rum ad and alio
decpen the uft a-bralt ying out a to the Lar5 to 01.1

Pouma's, IN.byW.北) Cape 0 ) 1.5 oti W. Chan. int of the tons way, hoch Shoals - and reach
as far as a ; the ligh where you it muft not hesagreat

Way into the Se.a. On the outward Eage of thok Shoals you have no more than of to - Foot Water. Beyond this dhil N. by W. lies amother Shelf calld die Broad Hock, wheh reaches out a long way to Sca, and keps on to Cape Niaffim.

Cape Nallan, (calld by the Span!/b Pilots Cape Vionge) makes the E. Pont of the Riscr \%oumanon. As you lal N. and by W. and due N. to come out of the Ciniph of lifigelon and that your Courde for this River lics in N.E. for about 5 or 6 Ls , to you will not lee the River at lelt till you keep that Courle, and bring (ape D) oose to bear S.S.1:. from you; and then the Opening of the River will lie S. by W. tom you.

The Entrance is wade, but the Water is thoal, to that great Ships do not go in here. The $\%$ )utch have two or thece lirge Scttlements in this Rucr, and a good number of Shups employd in it. When you are overthe Bar, you have + or 5 fat but not above - to \& Foot uponthe Bar at high Water. If you are bound up, as foon as you sct in, run S.E. about J/uskito $\%$ 'rent, and then go S . in, and come to an anchor betore the firlt Village. Allo at the lecond Fort is a good Road.

There are feveral other lmall Rivers W. and N.W. of this Port, fuch as the Morliso, anothor calld W'aymay ditt. 3 Ls, the slmatian +1 s, and the Alocrmoco o 1 s farther: This lia' fome call the Lithe' () oonoko, but it is not to taken in the Charts.
N.W. from thas hatt lies the great River ()roonoko, with the Illand Tramadede at the Mouth of it, of all wheh we have fooken in their proper Places.

There are icreral good Roads about the Ifland of Tirnadude: but as the Sfomards neglect the Place, and there are very few Inhabutants uponit, we thank Duections for hilhos, about it vory utelels.

## rafil, fiom the Muth) if the Rier Oregliano, or de

 , being the North Poiat or Head-land of the Entrameof all this of mito the ther Colo$t$ all or no, (iil, 'us not 11 it all the out catring
and of C.arL. Shore of s the Headic Main of Sca ${ }^{5} \mathrm{Ls}$; It River to within the

Being pult this Riff, fand in S by E. fair for Alvenk.1, which is the firtt lland you meet with in the Mouth of the Row de Amazon "r, and makes the E Point of the Chamal mentiond above; the N. Point of a large River, which comes in tion the Main W' by S. from it, making the other or W. Vome.

Before you come to the Mand shropot, you will fee three hard dry Banks of Sand lying triangular, at about a L datance from the lland, and about the lime diftance from one another ; the northermolt is the bigelt: Leave them all on your Larboard fide, and ltand in S.W. for the had l'oint of the River on the other Shore; the Sands are ftecp too, and you will have 5 to 8 Fa and a very lair Chanael all the way. When you have made the laid namelets Pomt, you Conte is due S. to die Rood Hook, or Red Point, which is the other or S. 'oitet of the River; and tiom thence you hase the lake dear Chanm


S the Poratury clam the Sovercignty of all this
$B \mathrm{BC}$ Coaft, from the S. Pont of the Opening miot the River of Am,s=ones, andamex it all to ther Colonjo of Brafit; to whether they poffes it all or no, as by our Accome appears to be doubtul, 'us not material to the Suilors: "Tis fufficient that they call it all the ble, it (inalf, and we may deleribe it as luch, without entrmg into the Quethon whether of teht it is to or no.

Irom Cibon Noort, or the North Cipe on the Ithand of C.an$f \because, \quad "$ hich manes the northermoit lome of the E: Shore of the Riodedmazones, to P'mata di Pedras, which is the Headland or firt Point on the oppofite Shore on the Man of Sirati.', it isby jult Meafiure cither of the Land or Sea -5 Ls; and ho whe we may reckon the Mouth of that valt River to be; mathermgelear of all the Iflands which lie within the Channel of 1 , whofe Number is not to be caft up, and tome of which are very large, partaculaly the lland of 'lacoiares, which is near 7 , Miles long and $;$ o broad, and where the Spane aids or Portastefe have aftrong fort; and the Ifland \%acses, where they have mother, being pon the man Channel of the River, calld by the Spentards, Camal de Bonalianda, or the Safo and Verp (Kamul.

As the llands in this great Opening are not to be numberd, fo nether are the Mouths or laflages between them into the Rwer; for to many lllands, to many teveral Channels may be fand to belong to the Grand Race.

The chict Entrance which Nimbation takes any notice of, is on the W. fute ot the River; due $S$. from the Illand Capo. 21, and $S$ alte from the Mouth of the River Alrouarey mentond hetore To so mon the rafige, lippofing you tirt make Cate Noud, fand in for the Caje, till ynacome inter 6 Fa. Water, you will find the Shondmes gradual and juft: But come no nearer than 5 Fa. at whoh tume you will be = las at lont from the Shore; the rett you mutt allow for a flat, wheh lies off" from the Cape, and continucs to lic otr Shore all the E fide of the Mand, whll you cone to the Mouth of the River Aro. üar. About 5 is thort of that Rwer the Land thoots out mu: the Sea caftuard, makin: a large rumd Cape, but we lsem no Name guch tr.
()if ot that Pont you will fund, keeping the ulinal diftance, - (1) and \& Fa. Water : from thence itecr E.S.E. till you Set dunut : Is off, to avod a long Riff of Sand, wheh thom of due N. from rhe other l'ont of the Rever Aroader ; Whals Samdents matharp Point, and at the End of the Point Ins a tmall lland of Sand, dry ar low Water: All which you mmi avon!, and kecp agood Othing as above, leaft you are liosid upon that Mand and Rifl by the Indrate of the Ebb, "hich runs very froug into and rhro' the dirowary, as has becn ublervinits place.
of all this ng into the their Coloit all or no, ctiul, 'tis not all it all the hout entrmg
land of CorE: Shore of is the Headhe Mam! of real ; Ls; alt River to within the p. and fome f y'uovares. re the Som: and \%acsis, Channel of a liundu, or x numberd, hem into the nols may be
notice of, is fland Camo. vaily menoustitt make ac into 6 Fa. $t$ : But come $=$ L.s at Icalt t, which lies fil the E fide River Alrod hioots out ape, but we
liual diftance, S.E. till you Sand, wheh r drozars; ot the Point I which you cart you are of the Elh). eiar, as has

Bemo pant this Riff, AtandinS by E. fair for Arripnke, which is :lic firt Hhand you meet with in the Mouth of the Rud de Anseromes, and makes the E Point of the Chamel mentiond abose; the N. Point of a large River, which comes in fiom the Man W'. by S. from it. making the other or W. Poine.

Betore you come to the lland dil:fok, you will lee direc havd dry Banks of Sand lyug trimgular, at about a I. dilanac from the lland, and about the lime datance from one another; the northermoft is the bugeft : Leave them all on your Larboard fide, and ftand in S.W. for the thid Point of the Riser on the other Shore; the Sands are flecp too, and you will have s to SFa and a very fair Chamel all the way. When sou have made the haidnamelels l'oint, you Courle is due S. to the Rood Hook, or Red l'oint, which is the other or S. l'oint of the River; and from thence you hase the like clear Chanacl under the Main, with a contmued Range of Illands on the Larboard-fide, for above; Ls: The Chancl is gencrally $=$ to + Is wude. till you com: to the Country of the \%omamor: Where the Mollandins had a Fort, but the I'raniands now pol: fels it, and have fome Shys which ufe this Channel: But we find no Marks of any Navigation beyond it, the Currents being fo execeding volent, and the weight of Water fo great alto, and which rifes at certain times to much, that it drowns all the low Grounds and Inands, fo that there is no knowing the Chamel. The dfoniards call this Coatt the Kingdom of the Iokelous, and di Mos Mariucs.
N. B. The Patrance into this Clianal is derectly under the Eymator.
On the E. fide of all thete Inands, at about half a Degree S. and at the diftance as above, begins the Coattofirifit: The Iflede S: "\%um, or S: \%oliz, is the lint on that hed, is that of Alrapoken is on the other. Oppofite to this Inlan!, a grat Raver calld Guama cmptics it telt into the Ride al Am, zones: and on the Pome of Land which makes the N. Head of that Rever the l'ortugtel: hase a Fort mancd (athedi, or Civadade de liden, that is, the City of Ridem, "here they" kecp a Garriton. and where there is a very sood Road bor Shipping ; but the Current of the grear Raer is fo ftrons, that Ships camot work it up without great dilficulty; and as for the City ir has litele but the Name.

This they lay begins the Conf of Brali! ; and fiom hence the land groes away N.E. between the Ithands, and under in umbhabited shore, thll youpatis a Point of Land calld C'ne! 1 tabu, diftance from the Point or Road of Redon tols At the comme out from this Streight youmalt be carcful ot a Ruif of Sand which thoots out from the N.E. Pome ut St. if Im's Ifland, and makes a long Hook, bending catturn! wow. nis the Shore aboves Is in lengeh; and oppofite to wheh tion the Main mus out another Sand, makitsémother llatp I'unt; in



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## Sailing Directions for thee $C$

that the Pallage, or Fair Way between then, makes a kind of Streight of about 2 Ls wide : You muft find the Channel by your Lead.

From this Streight to Punta do Pedras, the Courfe is E.S.E. or thereabour, the dift. 7 Ls : The W. part of the Courle is tiall of fimall Iflands and Shoals lying off from, and round about them; fo that 'tis dangerous going within 3 Ls of the Main. There are fone Inlets and kivers alfo come in behind thofe Shoals; but as there are few or no Inhabitants on the Main, and none at all in thofe Illands, Navigation has no Bufincts there. P'oint Pedras lies in S. Lat. 40 m .
From Punta de Pedras the Shore trends away more to the S.E. but on the N.W. fide of the Point comes in the River $d e$ Fidras, or the flony River, the W. Print of which runs far cut into the Sea, and joins the Flats of the Iflands mention'd above: So that at that Point the Mouth of the Rio d' Amazones may be faid to end, and not before.
S.E. by E. from Point de 'Pedras, and diftant from the River de Pedras about 5 Ls, lics the Rio dic Cayta, or Pyrua, formerly call'd Rio Fleman, or the 'Tutch River. On the N. Point of the $W$. Shore of this River is a large Fortification call'd Fortaleza de'lyrava, and on the E. Shore of the River, ${ }^{3}$ Ls within the Points, lies a Town call'd Villa de Cayta. Here is a good Road for Ships to anchor in, either on the E. Shore betore the Town, or on the W. fide under the Lee of the Caftle. The Purtuguefe fend fome Veffels in here to buy Provifions, but 'tis not much frequented.

From the Rio de Cayta the Courle is E.S.E. to the Rio Tury the diftance 40 Ls. Between them lies the $C a f a$ de $V_{y s}$ iat the Rio Rodomonta, Rio Guropy, Rio Carara, and feveral other Places of fimall note for want of Commerce; otherwife they have many of them very good Bays and Roass for Shipping. In the Mouth of the Rio Tury, and, as it were, blocking up the Harbour, lies the Ifland of $S t$. \%olnn, a long narrow uncqual picce of Land, having a Ri ? of Sand rumning off N . from it, as big and long as it felf, and much broader ; this Illand lying juft off of the River's Mouth, makes a very good Harbour on the infide of it, as well as in the Mouth of the River it felf; but 'tis very difficalt going in or out, here being no Pilots to be found.

This Coalt is fair and clean, but unfrequented. From $S$. Yoln's Ifland the Coaft fhoots out a little N.E. to the Ifland Sypomba, dift. about ${ }_{7}$ Ls. In the way lics Barryeras Vermelliar, where there is a large Bay, and very good anchoring, as there is alfo within the Illand to the eaftward of the Bay: But here is no Shipping or European Plantings; fo that all thefe Bays feem to be uecelfs.
S.E. fiom Sypormba lics a Range of Iflands, making the great Bay of Para; one of them is call'd the Ifland of 'Para, within which there is a Portuguefi Fort, from whence the Province has its Name; allo a finall River of the fame Name, in the Mouth of which is good riding forgreat Ships, the Illand breaking off the Sca, and two high Points fecuring it from both the $N$. and E. Winds. E. by S. from thence lies the Bay de Ciabelo de Vellsa, a large Bay, where is good anchoring for timali Veffels.

At the Mouth of this Rio de 1 Para there is a Portuguefe Towncilledhitld dededra, with a large Fort having a Plat-

On the Maranlja cially for

The H from Roc Head-fant it lics in Mouth o on the S . call'd For tadel whis

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On the S. fide of this Harbour lies the 'Portutuefe City of Marantjao, where they have a very confiderable Trade efpecially for Rice and Tobacco.

## ; E.S.E.

 urle is ound aof the bchind on the © no Bu-e to the River de runs far ention'd $d^{\prime}$ Ama-
re River formerN. Point pin call'd cr, 3 Ls Herc is Q. Shore c of thec buy Pro-

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From St. the Ifland ras Vernchoring, rhe Bay: , that all
the great ra, withthe Prone, in the dbrcaking th the N . de Cabelo all Veffels. 'ortuguefe ig a Plat-

The Harbour is perfectly fecure, the Ground good, clean from Rocks or Shoals, and you ride in 8 to 10 Fa. with a Head-faft a-fhore juft under the Citadel. The Entrance into it lies in double ; there being a triangular shoal juf in the Mouth of the Pallage, the Chamel lyan in on the N. and on the S. fides of the Shoal, under the Camon of the Fort call'd lortale $\approx a$ de St. Pbilip, which is on the N. and the Citadel which is on the S.

The Mouth of the River is 4 Ls. broad, oppofite to this Harbour: 'Tis call'd a great River by the Portuguefi Maps, but others fay there is no fuch River at all, and that it is only a Bay receiving three limall Rivers into it: The Difpute is not to our Purpofe ; 'tis fufficient to obicrece, that the Mouth or Openiug paffes between this Ifland and the Main, and is a very good Road for Ships of the greateft burden.

There are likewife teveral good Harbours on the W. fide of this Gulph, where the Portugtuef have fome Settlements, and load feveral Ships with the Product of the Country.

On the other fide of the Ifland eaftward there is alfo another Channel of the fame Gulph, which they call Barra de Tapary; it goes up to a little Bay or Road call'd Ejlireza or streight de Tapyroza. On the E. Coalt of this Chand or Streight lics another Settlement call'd Santa Mavin, with a Fort call'd Fortaleza de Santa Maria: And N. from the Fort lies Calio de la Torta. S. of that Cape, and under the Cannon of the Fort, is a very good Road, where the largelt Ships may rade fhcter'd from all Winds.

Thus the Inland Maranbao lics fair in N. and S. cmbaycd in this great Gulph of Marantaro, and feems to be furrounded with good Harbours and good Roads: the Navigation withan among the Iflands cannot be deferibed, being for nothing but thail Boats.

From Maraubao the Coaft trends away E. by S. and E.S.E. being generally a flat Shore, but with feveral good Rivers and Harbours, which however have little Commerce; and moft of the Rivers alfo are barr'd and block'd up with S.nnd, and render'd unnavigable for great Ships.

From the Point or Cape of Arbrafe, to the Barracen do Tom tugas, or the Harbour of Turtles, is 60 Ls E.S.E. the Coat all flat as above, fo that you mult not come within + to 3 Ls at the neareft; nor is there any anchoring but in the open Sca upon all this Coalt, except in two or threc particular places, which it would be hard for a Stranger to find. $N^{\prime}$. $B$. If yous are blown upon this Coaft, and are macquainted, you may take a Pilot at Maranbao.

In this Barra de Tortugas, or Tiurtl' Harbour, is very good anchoring in 5 to 7 Fa . and good Ground; but as the Flats on the Shore ftretch out far into the Sca, and make the Mouth of the Harbourvery narrow, you mult found your way in : for as here are few or no Inhabitants, at leaft of Europciats, you muft expect no Pilots cither in or our.

From this Harbour the Coalt lies E. half a Point foutherly ; but your Courfe for 6 or 7 Ls muft be N.E. by E. becaute of a long Shoal of Sand which lics off, ranging with the Shore
gutt off of the River's Mouth, makes a very good Harbour on the infide of it, as well as in the Mouth of the River it felf; but 'tis very difficult going in or out, here being no Pilots to be found.

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S.E. from Sypornba lies a Range of Inlands, making the great Bay of Para; one of them is call'd the Ifland of Para, within which there is a Portuguc/i' Fort, from w' ance the Province has its Name; allo a lmall River of the fame Name, in the Mouth of which is good riding for great Ships, the Ifland breaking off the Sca, and two high Points fecuring it from both the N. and E. Winds. E. by S. from thence lics the Bay de Cabclo de Vellsa, a large Bay, where is good anchoring for tmall Veffels.

At the Mouth of this Rio de Para there is a Portugnefe Town call'd Villa de 'l'ara, with a large Fort having a Platform of Canuon by the Watcr's Edge, commanding the Road; and above that. upon a high Rock, is the Caftle, cnclos'd by a ftrong Wall of Stonc, alto mounted with Cannon.

The Road is very good, the Ground clean within the Mouth of the River, and fecured by the high Lands on both fides. The Mouth of the River is almoft $=$ Ls over at the Town, and you may ride in 15 Fa . within Cables length of the Shore, and 10 Fa . clote under the Walls of the Fort. - Many Ships ule this Port for loading Provifions, which are very plentiful; allo for Tobacco, which they carry to the Bay of $P$ pheruamburco, to load on board the great Ships for Europe.

In the fame Courfe, and diftant from the Inland and River of Paraabout 9 Ls, lies the Cabo de Cuma, the moft noted Point of all this Coalt, as being the E. Boundary of the Coaft of 'Para, and the W. Boundary of the great Gulph of Maranbao: This Ciatur de Cama lics in Lat. 2 d. S.

The (iulph of Maranhao is a decp Bay full of an infinite Number ot linall Inlands, the Chamels of which are not to be delicrib'd: On the E. part they are to thick fer, that they fpoil all Navigacion, except uy Canoes and fmall Boats, by which they pais from one another.

The breadth of the Gulph from Cape Cama on the W. Bank of the River Maranbao, to Cabo des Arbres Sce, or the Cape of dry Trees, on the $\mathbf{E}$. is no lefs than 15 Ls.

In the W. part of this Bay, and N.E. from the Mouth of the River, lies tinc Ifland Maranbao, which is large, and commodioully fituated for Navigation, and confequently for planting a Colony. On the W. fide of the Illand there is an excellent Harbour, being a mere Inlet of the Sea, no River running into it; for the Ifland is too timall to have any great Ri vers in it, being wo where above 5 Ls long, and about 2 Ls broad.
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From this Harbour the Coaft lies E. half a Point foutherly ; but your Courfe for 6 or 7 Ls muft be N.E. by E. becaufe of a long Shoal of Sand which lies off, ranging with the Shore for 12 to $1_{3}$ Ls. There is a large Channel within it, and feveral Rivers and Openings, which feem to have good Anchor-ing-places in them, and by the breadth of their Waters to be navigable far up; but as it is an unfrequentid Coaft, a Stranger ought not to entangle himfelf among thole Shoals; for at the E. end of that long Bank, the Paffage out is very narrow and dangerous; other Shoals lying beyond it, and a flat Shore alfo :unning out from the Main, which together almoft fhuts in the Paffage at that end; thole Shoals alio not being founded, at leaft as we can yet be inform'd of.

For thefe Realons thofe Ships which come out of the Barra de Tortugas, fhould ftand away to Sca N.E. by E. as above, till they come clear of that long Bank of Sand, and then fteer away E. and E. by S. for the Babia Baxa, dift. from the Tortugas Harbour about $3 \circ$ Ls : Almoft in the Midway lies the $P$ Pinta das Baxas, or the low Point, dilt. from Tortugas is Ls, and from the Bay 12 Ls.

This Punta das Bawas is according to its Name a Cape of Shoals, for it is a foul Shore, furrounded with Rocks and Shoals for almoit : Ls off to the Sca N. and N. by E. From thence you may nil under Shore, and within the Banks of Sand, which fitl! lic off of the Main as before; but the Channel 'setween is at leaft 2 to $2 \frac{1}{2} \mathrm{Ls}$ wide; only you mult kecp a Boat a Head-founding as yougo, whereas if you keep without the Banks, you have a clear Coaft, and need fear no Dangers, but what are to be feen long cnough beto: ' you come near them.

At the Babia Baxa you have good auchoring, hand (iround and deep Water: a Bank of Sand, which lies alons Shore and fair thwart the Bay, kecps off the Sca, and breaks the Force of it, when the $N$. Wind blows, which comes right in; and the Land on both fides flelters you from all other Winds.
S.E. by E. from the Babia Baxa, dift. 10 Ls, lics the Rio Laguariba, where the Portuguefe begin to plant again; for execpe about the Ifland Maranthao, and fome few other Places, all this Country from the Rio de Amazoncs hither, and 20 or 30 Ls farther ftill, was ufually called the Wild Broflit or the unfrequented Coaft: But here they have a Fort on the W. Point of the Entrance into the River, called Fortalesa de St. Laürcnce; and the Point of the River is alfo called Cape St. Lawrence, as the other Cape is called 'Punta de Onzun.

From the Entrance into this River to Cape Cors: is is Ls, the Courfe S.E. by E. as before ; the whole Coaft is clear cither of Rocks or Shoals, and has good gradual Soundings, till you come to the Cape it felf: burt there the Shore is foul, and fill of Rocks, which lic off for two Ls and more into the Sca. On all this Coaft, from St. Lawirnce hither, you have a fair Strand, but no River or Creck, Bay or Harbour of any kind; to you can have no bufinefs to put in to the Shore, and you may do well to kecp an Offing of 5 or 6 Ls all the way as you go towards the South.
From Cape Cors the Courfe is the fame to the Great Salinar, or the Salt-Bay, a Harbour famous over all the Brafils for Ships coming to load Salt. Betwecn Cape Cors and the Salinas, almoft Midway, you will fec the Monte Vermelljas, or the Red Hill ; the Duttc) (for they gave (Dutcl) Names to all the Places on the Coaft when they poffeft it) called it Rooden Burgh, it is a high Mountain like a Sugar-Loaf, flanding near the Strand. and is leen above 15 Ls to Sea , and is therefore an excellent Mark to know the Coaft by.

When you make this Red Mount, you may ftand right in with the Shore, till you come into 6 Fa. but go no ncarer, becaule there runs a Riff of Sand with feveral funk Rocks upon it, ftretcling out into the Sea E.byN. from the Point; but kecp your Lead going, and you have nothing to fear. From this Point to the Harbour of the Grand Salinas, the Coaft meafures in Ls by the Scale, on the Land, but may be accounted $1 ;$ by Sca, becaulc of your kecping off as above.
N. B. You have from 5 to 7 Fa . Water all the way to the Mouth of the Port, but 4 and 3 Fa. in the Entrance: The River is navigable far into the Country, but the Salt-Ponds lic on the W. fide : fome near the Point, and others, which are the chicf, lic 6 or 7 Ls up the River due S. The Entrance into the Harbour lics in Lat. 3 d. $40 \mathrm{~m} . \mathrm{S}$.
As the Entrance into this Port is thus from the N.W. fo in coming out you muft be efpecially careful ; for to the N.E. lics a great Bank of Sand, with many dangerous Rocks upon it, called Baxps de Salino, or the Shoals of Salina: They lic off from the Shore due N. at the dift. of 3 Ls; but then they are joyued to the Shore by a Riff of Sand 3 Ls in length, but not above half a $L$ in breadth; upon which there is no venturing with a great Ship, there bcing not above $2 \div$ Fa. Watcr upon it : There are alfo many fmall Sands in the Channcl, which none can fail among but thofe that are well acquainted. There arciudecdanod Channcs between them, in moft of which are
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N.W. fo in c N.E. lics upon it, hey lic off they are h, but not venturing Vater upon acl, which ed. There whichare
hereabouts down to Cialo St. Roquo, which lies; L.s E by N. from Rio Siara.
Off of this Coaft, diff. from the Shore 5 to 7 Ls, lies the great Sand mention'd before, called Baxos de St. Roquo, or the Shoals of St. Roquo, a great Shoal of Sand with Rocks interfiperted, reaching is Ls in lengeh, and at the E. end clpecially $S$ L.s in breadth : At the W. end it runs off to a hlarp Point, and throws out a long narrow Spit of Sand, which rcaches quite to the Rawos de Saling which however Ships do run over in many Places.

Thefe Shoals of Rocks and Sand growing broader at the E. end, they thoot out a loint, which reaches duc S. towards the Main L.and directly oppofite to Cabo do St. Roquo. On the other hand, from the Cape it felf there lies off a Riff of Rocks, which not ouly furround the Point on cvery fide, but lic out from the Shore due $\mathbf{N}$ at leaft a $\mathbf{L}$, aud almoft mect the S. P'oint of the Shoal as above.

The Channel between thofe is the only Paffage leading thro' upon all this Coalt, which is not above a Mile over. However, the Depth is good, having + Fa. in the narrow of the Strait; and Pilots will carry you thro' very well, but no Stranger ought to venture.

Thelc Shoals are itecp too in the infide, fo that you may run within halt a Milc of them with your Lead in 5 Fa. all the way E. and W.

Under Ciape St. Roque, from whence thefe Shoals take their Nanc, lics a decp Bay, called by the 'Dutco de Smienda Bay, where is very good Riding: Alfo at the botton of the Bay comes in a River, called by the Portuguefi Rio do Agtuda. In this Bay you have from © to ${ }_{3}$ Fa. very good hoiding Ground, and fafe from all Winds.

From this Cape St. Rogue the Coaft of the Brafils turns flort to the fouthward; and whercas it lay before E. and W. with very little Variation, viz a Point or two at moft, now the Land falling off, the Coaft lies S. by E. and N . by W. varying very little to C'ape de Lucena; in which Courfe, as the Coalt is more freyuented, fo we find it better furveyed, and a more exact Account of the Soundings, Diftances and Bearings than we had before.

From the Strait off of Cape de Roque to the Mouth of the Rio Grand is 1 Ls ; the Courle is under a lafe Shore, full of good Bays and Anchoring.places S.S.E. You have all the way 7 to 8 Fa, within a $L$ of the Shore, and 5 to 6 Fa. even in the Bay, clote to the Shore, that is, within a Cable's lengeth of the very Strand.
The Entrance into the Rio Grand lies N.E. and S.W. You muft fland off from the nortbermoft Point to Sca at leaft 3 Ls , if you come from the $\mathbf{N}$. for that Shore is all foul, and full of Rocks on both fides the Point; on the N. fide as far as the Mouth of the Rio des Carlutas, which is almoft 5 miles, and on the S. fide it continucs foul for at leaft $;$ Ls within the Harbour, and up the River.

In the Mouth of the Eutrance lics a four figuare Shoal, with

Mouth of The Port, but ${ }_{q}$ and; Fa . in the Entrance: The River is navigable far into the Country, but the Salt-Ponds lic on the W. fide : fome near the Point, and others, which are the chicf, lic 6 or 7 Ls up the River due S. The Entrance into the Harbour lies in Lat. 3 d. 40 m . S.
As the Entrance into this Port is thus from the N.W. fo in coming out you muft be efpecially careful ; for to the N.E. lics a great Bank of Sand, with many dangerous Rocks upon it, called Baxos de Salino, or the Shoals of Salina: They lie off from the Shore due N . at the dift. of ${ }_{3} \mathrm{Ls}$; but then they are joyned to the Shore by a Riff of Sand; Ls in length, but not above half a $L$ in breadth ; upon which there is no venturing with a great Ship, there being not above $2 \div$ Fa. Water upon it: There are alfo many fmall Sands in the Channel, which none can fail among but thofe that are well acquainted. There are indeed good Channels between them, in moft of which are $4^{\text {to }} 6$ Fa. but you mult have a good Pilot at the Salinas to carI) you chro:

When you are over the Riff that joins the Baxos de Salino to the Shore, you have a clear Coaft within the Shoals all the way to the Rio Siara, which is one of the moft confiderable Ports on this part of the Brafils.

Thefe Shoals called Baxos de Salino ftretch from W. to E. about io Ls, and are in fome places $;$ Ls over, befides a great Ledge of Rocks which lie to the weftward of them at the dift. of but half a L , which lying triangular are about 2 Ls over, and lic N. by E. from the Mouth of the Salinas.

Being over the Riff which joins thefe Shoals to the Main, you muft keep an Offing of about 3 Ls; there you will have 4 to 5 and 7 Fa . Water : But go not off to Sea beyond 10 Fa . while you are in this Courfe; for the Baxos de Salino have a Tail of Sand running away E. by which it is joyned to the great Shoal called the Baxos de St. Roquo, of which prefently.

From the Rio Siara the Courfe is E. by S. the going as before within the Sands and Rocks, is 50 Ls: in the way there are feveral gond Bays and Harbours, but few of any Trade. There is good anchoring in the Bay Parduba, where you ride within a Sand which lics on the E. fide of the Entrance in 3 to 4 Fa. Water, and well fecurd; the Channel goes in on the W. fide, the Point of which is called Yunta de Pedras, and has ${ }_{4} \mathrm{Fa}$. in the going in.

About 10 I.s E.S.E. from Punta de Pedras is the Bay or Balia Brandibi, where there is good Anchoring in 5 to 6 Fa. but no fhelter from the N. Winds, which blow right in : From thence the Shore is full of good Roads, as at Surgidoura, Punta del Gade, the Sunta de Siara, and then the Port of Siara it felf, where there is very good anchoring in 5 Fa. and well fecur'd. But moft of all thefe laft Harbours require the help of Pilots to bring you in, who may be had at feveral places, the Portuguefe having fome fmall Settlements
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From t Rio (ir:an good Bays 7 to 8 Fa. Bay, clol very Stra The E muft ftan you com Rocks o Mouth of on the $S$. bour, and In the fome dang of Natal, ftrong Fo the Theree Rocks, b broadelt ; to 5 Fa. $q$

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ac Main, 11 have 4 1o Fa . o have a d to the ich preas before re are fcThere fo within to 4 Fa . W. fide, ${ }_{4}$ Fa. in c Bay or to 6 Fa . a : From gidoura, the Port oring in Harbours bc had at telcments
exact Accomit of the Soundings, Dittances and Bearings than we had before.

From the Strait off of Cape de Rogue to the Mouth of the Rio Cirand is 11 I.s; the Courte is under a tafe Shore, full of good Bays and Anchoring-places S.S.E. You have all the way 7 to 8 Fa. withina L . of the Shore, and 5 to 6 Fa. even in the Bay, clofe to the Shore, that is, within a Cable's length of the very Strand.

The Entrance into the Rio Grand lics N.E. and S.W. You muft fand off from the northcrmoft Poine to Sca at leaft; L.s, if you come from the $\mathbf{N}$. for that Shore is all foul, and full of Rocks on both fides the Pome ; on the N . fide as far as the Mouth of the Rio des Ciarlutur, which is almoft 5 miles, and on the S. fide it continues foul tor at lealt; Ls within the Harbour, and up the River.
In the Mouth of the Eutrance lics a four fẹuare Shoal, with fome dangerous Rocks in it ; and S.W. from that lies the Point of Natal, on the Extremity of which the Portuguefe have a ftrong Fort called Fiortaleza des Tres Magos, or the Caftl of the Three Kings: You may go in on either fide the Shoal of Rocks, but the Chamel on the N . fide is the beft and the broadeft ; there you have 6 to ${ }_{7} \mathrm{Fa}$. in the Fair Way, and + to 5 Fa. quite up.

On the S. Shore of the River, about 3 I.s from the Caftle, lics the Town of Natal, before which lies the Road, where you have 4 to 5 Fa. very good Anchoring-ground, and well fecurcd from all Winds: The River is navigable farther up; fome Portuguefe tell us 'tis fo for 100 Milcs, but we have no Survey of the Channel, to we can give no Account of it.
From the Rio Grand the Coaft trends away S.S.E. 3 Ls to Punto Negro, and to the Rio Pirangy, which I name only becaule there runs a Riff of Sand off of Point Negro, which you mult give a Birth to of at leaft 2 Ls: for the reft you have a fair Coaft with 6 to 8 Fa. and good Soundings all along the Coalt.

Off of Point Negro E. by N. and dift. about 4 Ls, there lics a Ledge of Rocks in the Sca, flrctching N.W. and S.E. for the length of 3 Ls or more; you will know them by the working of the Sea upon them; yet there is no where lets than 4 to 6 Fa. Water over them, to that the Ships past ordinarily over them, without Danger, cfpecially finall Ships.
From 'Point Negro the Coaft trends on S.E. to Point de Luena, dift. by the $\mathcal{T}$ Iutch Mealure 20 Ls , the wholc Coaft berween full of good Harbours, Bays, Rivers,and Openings, to that Ships cannot wamr Anchorage ; the Ground being alfo geucrally a youd holding Sand, or fandy Clay. The Bays, Ejc. in this Courfe are, 1. Porto de Buzios, a barr'd Port ; yer finallV Veffels go in caffly, and have good Riding when they are in. 2. Rio St. \%tian de Stau; there is a Sand lies thwart the Harbour's Mouth, but you have a good Channel on the W. fide of the Sand; within is a very good Harbour, where you have 6 to 7 Fa . 3 . Baluia

## Sailing Directions fo

de Tanbanty, a good Road, tho no Harbour; the Riding is made late by the Sands which lie off within a $L$ of the Shore. 4. Rio Congobayon, a very large and fafe Harbour, the Entrance of the Opening $1 \div$ to 2 Ls over, in the Entrance is 5 to 6 Fa. and within the Port, 3 to 4 Ls up the River, 4 to 2 Fa. in a fmall Bay on the E. fide of the River, where Ships go in to load the Country Produce, for here are but few Plantations of Chriftians. 5. Porto Angaro, where there is a good Road, tho no navigable River, in 5 to 6 Fa. but the W. fide is rocky and foul. 6. Babia de Treifon, a large decp Bay, and the Entrance very wide, but made narrow by two Shoals fhooting out from cither Point, till they bring the Mouth of the Bay from 4 L.s wide to lefs than two. 7. Ilfa de Manguas, a little llland in the Mouth of a fimall Bay, behind which Ifland there is good Anchoring. 8. Rio 7)oce, or $\mathcal{D}$ ulce, where there is a large Bay ; but the Road for Ships is without the Bay with!n the Sands, which lie off here, as the Sands do in YarmouthRoads in Eugland. There are feveral others of leis note.

When you are in this Road you have 5 to 6 Fa . very good Riding: The Punta de Lucena is within 2 Ls of this Road; but to go without the Sands, you make it 6 or 7 Ls to come to the Point.
N. B. In this Road off of Luccua the Brafl Ships bound for Europe rendezvous to make up their Fleets, as the spaniards do at the Havanna.
N.B. South from the Point de Luccua the Portuguefo have a Forrification, call'd Fort St. Antonio.
$P$ puta de Lucena is the N. Point of the outer Opening into the Rio Parayba; under that Point W. and without the Fort St. Antonio, is a very good Road, where you may anchor in 4, 5, and 6 Fa. within which Fort a Riff ihoots out S. oppofite to Cape Ledo, where there is alfo a Portuguefe Fort : And thofe two Forts make the inner Paffage or Mouth of the River, the Channcl between being clean and clear of Sands or Rocks, and about a L wide.

About half a L up the River within the Forts lies the Ifland Fratres, or Brothers, at the N.E. end of which is another ftrong Fort, fo that the Entrance into this great River is dcfended by three Forts, the beft of the Channel goes in on the S. fide of the Fort, and alfo of the Ifland: The River is faid to be navigable above $3_{0}$ Ls up the Country; but as we are not certain of it, 'tis not material for us to cnquire, fince 'tis but of little ufe to Navigation. About 8 Ls up the River, 10 Ls from Punta de Lucena, lies the City Parayba, where you have good anchoring ground in 4 to 5 Fa . Water.

From the River Parayba the Coaft trends on due S . to the Porto dos Francezes, dift. 10 Ls . This is a large Bay, into which feveral Rivers empty themfelves. There is good Riding in it, but the N. Shore is rocky and foul. Between thefe two lics Cape Blanco, and alfo the Rio Gramama.

All along this Coaft there lic fmall narrow Shoals, parallel with the Shore, like the Grounds off of the Iri/b Coaft betuveen Wexford and Dublin: The Channels between thefe Shoals and the Main are narrow and foul, neither is there any depth of Water for Ships: Ouc Fa. to $1 \frac{1}{2}$ is the moft for above 20 Ls in length ; but the Sea, at an Offing of about a L

## s Directions for the Coaft of Brafil.

Riding is made the Shore. 4 r, the Entrance nec is 5 to 6 Fa . 4 to 2 Fa . in a e Ships go in to w Plantations of $s$ a good Road, $W$. fide is rocky p Bay, and the Shoals fhooting puth of the Bay languas, a litele ich Ifland there where there is a the Bay with! lo in Yarmouth of lefis note.
5 Fa. very good s of this Road; or 7 Ls to come f/ll Ships bound ir Fleets; as the
the Pertugucfe tonio.
ter Opening into without the Fort u may anchor in ots out S. oppoguefe Fort : And uth of the River, Sands or Rocks,
rts lies the Ifland which is another great River is deannel goes in on d. The Rivar is intry ; but as we to enquire, fince it 8 Ls up the Rise City Parayba, to 5 Fa . Water. ; on due S. to the a large Bay, into cre is good Riding etween thefe two
ow Shoals, parallel he Irifh Coalt beels between thefe sither is there any is the moft for affing of about a $L$
with Sands and Shoals, that the main Entrance is by the Puuta Marine, an Inand where the Dutchs built a Fort to guard the, Eutrance into the Harbour of the Recief: Bclow this Fort more dut at Sea, food the City of Olinda, which the 'Portuguefe call Olinda de Pbarnambuquo. By this City lies the Entrance into the Porr, and here the Ships alfo had a Road; but the City was demolifid by the "Dutch, and another buile within a long Penintula, which runs from the Point S.W. towards the Main: When the City was remov'd, the Harbour allo was remov'd, and the Ships rode perfectly thelter'd within the Foint of the Peninfula, with three ftrong Forts, which guarded the Port, wiz. One on the Point call'd the Recief; which afterwards increas'd to a Town ; one on the Ifland call'd Authonio Vaz, which grew up allo into a City, and was call'd Manritz. ftadt, and one duc N.W. from the Road, call'd IV aar denburgh.

We have nothing to do here with the Hiftory of the Dutch taking and lofing this part of the Brafles, but to note what is to the pretent purpote; that as here was the Capital of the Dutch, Colony, to here was the Harbour of their Merchants Ships, and alio of their Ships of War.

The Harbour is good, tho difficult; there is 4 to 5 Fa . under the Lee of the Point, on which food the ruin'd City of Olinda; and the Ships rode there when flroug enough to defy an Enemy; but if it was otherwife, they run in under the Cannon of the Punta Marine, bchind which there is 3 Fa. to $3^{\prime}$ at low Water ; fo that they ride there well fecur'd allic.

It is ablolutely neceffary for any Stranger to take a Pilot here, if he is bound into the Haven. The Portuguefe bring a very great part of the Loading of their Flects from the Brafils from this Port, efpecially Sugar and Tobacen.

From this Port the Shore pufhes out a litele to the E. and the Coaft trends S. by E. to Rio St. Aizgelo. Here is a large Opening, but no depeh of Water, it being fo block'd up witli Shoals, that it is render'd almoft ulelels to Navigation; nor can any Ships enter here: It is dift. about, Ls from Olinda. There is ${ }_{4} \mathrm{Fa}$. without the inner Sand, and within the outer; fo that there is a very good Road, tho not a complete Harbour.
$N$. B. In all this Coaft you have the fame Soundings, and the fame Depths of 7 to 9 Fa. in an Offing of 3 to 4 Ls off of the Sands.
From Rio St. Angelo the Coaft contintes to thruft out to the E. and the Courte lies S.E. by S. from thence to Cabo St. Auguftine. This Cape lies in Lat. 8 d .24 m . S. and is the firlt Land of Brafil which the Europcan Ships makc when bound to the Bay, and taking their Departure from the Coaft of Africa, or from the Cape de Verd lylands. There is very good ancho ing in little Bay to the fouthward of this Cape, under the Cannon of two good Forts which the 'Poitugut? have built there, one call'd the Pental, and the other lertileza de Noftra Senbora de Nazaretb: The Harbour allo is very good; it goes in W. by S. under the Command of many Forts formerly builr by the $/$ Dutch, but kept up by the Portwgue $/$ e, whereof two are on the 1 lland Honten.

There are feveral Rivers which come into the Channel behind this Ifland, but none navigable for Veffels of burden; yct the Port is much frequented by the coalting Veffels of the $\% 0^{-}$
frong fort, fo that the Entrance into this grat River is defended by three Forts, the beft of the Chanuel gocs in on the S. fide of the Fort, and alfo of the Ifland. The River is faid to be navigable above $3^{\circ}$ Ls up the Country; but as we are not certain of it, 'tis not material for us to enquire, fince 'tis but of litelc ufe to Navigation. Abont 8 Ls up the River, 10 Ls from 'Punta de Lucena, lics the City Parayba, where you have good anchoring ground in 4 to 5 Fa. Water.

From the River Parajba the Coaft trends on duc S. to the Porto dos Fiancezes, dift. 10 Ls. This is a large Bay, into which feveral Rivers empty themfelves. There is good Riding in it, but the N. Shore is rocky and foul. Between thefe two lies Cape Blanco, and alfo the Rio Gramama.

All along this Coaft there lic fimall narrow Shoals, parallel with the Shore, like the Grounds off of the Iri/b Coaft between "lexford and Dublin: The Channels between thefe Shoals and the Main are narrow and foul, neither is there any depth of Water for Ships: One Fa. to $1 \frac{1}{2}$ is the moft for above 20 Ls in lengrh ; but the Sea , at an Offing of about a L without the Shoals, is very clear, and has from 10 to 13 and ${ }_{1}{ }^{5}$ Fa. till you come off of Rio Guiryo, and then 7 to 9 , and 4 to ${ }_{5} \mathrm{Fa}$. clote on the Back of the Sands.
From Rio Guiryo the Courfe is ftill S. and S. by E. to the Rio Guiana, the Shoals reaching all the way as before, the dift. about 4 Ls. Here the Channel within the Shoals widens to a L 1 nad, and deepens to ${ }_{2}$ Fa. fo that finall Ships may run thro' here to the Ifland Tamerica. The fame Chamel continues round the Ifland, coming out again at the S. end of ir, where there is 3 to 5 Fa. again, and a fair Road tor large Ships. At the N Point of the Illand Tamerica is a Fort built, or at leaft cnlarg'd by the 'Thutcl/, and call'd Fort Kofverlooren, or the fort upon the For:fiken Coaft.
There are abundance of fimall Rivers and Openings within this Ifland, but of litete Conlequence : The Entrance at the N. cad of the Ifland is fo narrow, occafion'd by a Spit of Sand which runs off from the oppofite Point, that fuch Veffels as go in are oblig'd to come clofe under the Camnon of the Fort which is upon the Ifland, the Paffage or Chanucl not being half a Mile wide. S. fiom this Ifland the Shore is cover'd with Shoals of Sand, and fome Ledges of Rocks. Therc is indecd a wide fair Channcl lying next to the main, and within all the Sands; 'tis half a L wide, but has no depth of Water for any Slips of burden, there being not above $1 \frac{\mathrm{Fa}}{2}$ in many places, and then fhoaling to $5 \frac{1}{3}$ and 6 Foot: Such Ships therefore as ulic this part of the Harbour, muft run out to Sea NiE. by E. till they come clear without the Sands, which they will know by the depth of Water ; being not quite clear, till they come into 7 to 9 Fa. then they may bear away duc S. and are fure to go without all the Sands.

Holdung this Courle about 8 Ls, brings you the height of the Recief; being the Entrance into the Rio de Pbarnambuquo: The River it iclf lics at Icaft $;$ Ls farther $S$. but is fo block'd up
wherts amotnex great River is deammel gocs in on di. The River is untry ; but as we s to cnquire, fince nt 8 Ls up the Ri:he City Parayba, to 5 Fa Water. Is on due $S$, to the a large Bay, into here is good Riding Between thefe two a. ow Shoals, parallel the Irifb Coaft benels between thefe acither is there any is the molt for aOffing of about a L from 10 to 13 and ad then 7 to 9 , and
S. by E. to the Rio before, the dift. ashoals widens to a $L$ ihips may run thro' Chamel continues S. end of it, where or large Ships. At ort built, or at leaft oftecrlooren, or the

1d Openings within ic Entrance at the N . by a Spit of Sand at fuch Veffels as go Cannon of the Fort hanucl not being half ore is cover'd with ks. There is indeed and within all the th of Water for any $\therefore$ Fa. in many places, Ships therefore as ut to Sea N:E. by E. hich they will know lear, till they come duc $S$. and are fure
you the height of o de Pbarnambuquo: but is fo block'd up

N. B. In all this Coaft you have the fame Soundings, and the fame Depths of 7 to 9 Fin. in an Oinng of 3 to 4 Ls off of the Sands.
From Rio St. Augelo the Coaft contintes to thruft out to the E. and the Courle lies S.E. by S. from thence to Cidio it. Auguftine. This Cape lies in Lat. $8 \mathrm{~d} .24 \mathrm{~m} . S$. and is the firft Land of Brafil which the E:uropean Ships make when bound to the Bay, and taking their Departure from the Coaft of Africa, or from the Cape de Verd flatuds. There is very good anchoring in a little Bay to the fouthward of this Cape, under the Camon of two good Forts which the 'Portuguff: have buile there, one call'd the 'Puntal, and the other l'urtieleza de Nofira Sentora de Nazaretb: The Harbour alfo is very good; it goes in W. by S. under the Command of many Forts formerly built by the •Dutch, but kept up by the 'P'ort $/ 4$. guefe, whereof two are on the Illand Houten.

There are feveral Rivers which come into the Channel behind this Ifland, but none navigable for Veffels of burden; y er the Port is much frequented by the coafting Veffels of the \%ortuguefe; the Ledges of Sand and Rocks, which as it were cover this Inand, render the Port very lecure, and for Ships of fimall draught make it convenient for Navigation.

Due W. from Cape St. Auguftine, and oppofite to the Rio de Sarinlaym, lies the Inand Alexo, well known for two excellent Roads; one en the W. fide of the Ifland next the Main, where you ride well thelter'd from all Winds but a N.E. in 7 to 8 Fa. good holding Ground : The other on the S.W. fide of the Illand, where the Road is fecur'd by a long Riff of Rocks, which run out near a $L$ from the Ifland, making a Bend like a Hook towards the W. On the back of the Itland N. there is a clean Strand, and 9 to 12 Fa. with good Ground; but no Riding except in the open Sca, which if a N. or N.E. Wind fhould blow, brings a great Sca in, and would endanger their running on a Lec-fhore.

From this Ifland the Shore of the Main falls off again wefterly, but the Courfe is S.W. by S. to the BarraGrande, about 15 Ls. On all this Coaft keep ftill an Offing of 3 to + Ls. where you will have the ufual Depth of 6 to 10 Fa. with good gradual Soundings: There are feveral fmall Harbours and koads between, but the Entrance into them is generally difficult, and it is but in few Places that Pilors are to be had. The Barra Grande is a large wide Road off of a finall Town and Fort call'd San. Benito, and at the Mouth of the Rio Sulyado: The River is not navigable except for linall Boats; but the Harbour is very good, lying behind the Sands: The going in is very narrow between the Riffs, which almont meet together, making two Channels ; the northermoft has 5 Fa . in it, and the fouthermoft but 4 , having a fmall Shoal of Sand beeween.

From hence the Coaft lies tair S.W. to the Rio Lagao de S.al, or the River of the Salt Lake, dift. 13 Ls. There are leveral final! Rivers in this Courle, but of no Importance. On the N.E.fide of the Entrance into thele Lakes there is a good Roadis a romad * R r

Bay,

## Sailing Dircitions for

Bay, under Tunta Sirato or Sarago $\approx a$; there is a long Riff of Sand thoots out from the Point a full L into the Sea to the S.S.E. which breaks off the Sca, and makes ic very good riding. Within that Riff the Ships lie in, to 7 Fas clofe under the Shore. The Entrance into the Lagao de Sal lies S.W. from this B.y, not full one L dift. from the weftern Point; the way in lics N.W. and S.E. There are rwo of the great Lagaos, or Lakes; one call'd the $L a(\xi a)$ do $S_{a l}$, gocs in about 7 Ls N.W. and about 2 Ls wide, being a very large inland Water, but of no Importance in Navigation ; the other gocs in from the firtt, af: ter abour a L within the Entrance, and lying awray N . is called the Norts Lake, about; Lsinlength, and i L and half over.

From the Lagres de sal the Coant trends on S.W. to the River St. Francefico. There are feveral intand Lakes near the Coant, which firead themelves as the other do ; but we do not find they are navigable, or at Icaft made ufe of; as Lagao ciAcapeba, Lagao dic Yaquacu, de lpochi, and fecreral others The diftance between the Entrance into the Lagao de Sal and the Rio St. Francifio is 25 Ls , the Shore full of Shoals, Sands and Ledges of Rocks, till they come to the fouthwardof the Rio Cerropo; then you have a clear Strand, and a fair Offing to the Entrance of the great River it felf.

Off of the Rio Coroipo lic thole known Rocks and Sands calld the Bawos Diego Roder igues. or the Shoals of Roderigues; they are ninc in Number, and lic N.N.E. and S.S.W. in three or four feveral Ranges, There is a good Chamel between the innermoft Shoals and the Main, where you have ${ }_{4}{ }^{4}$ Fa . and clean Ground; but the Paflage is narrow, and yous muft kecp your Lcad going, and be very carcful, cfpecially on your Lar'Joard-fide.
E. from the Baxos Tiezo Roderigues, dift. about a L. lic two othcr Ruffs o fRocks call'd Reciffo de St. Francifico, being in the Fiair $W_{\text {al }}$ from the N. Coaft to the Rio de St. Franci/co.
N. B. All the Ships of burden which come from Ploarnambuguo or other Ports on this Coaft, go without the Baxos Deteo, kecping an Offing of at lcalt 4 Ls , in 9 to ${ }_{14} \mathrm{Fa}$. in which Courfe they are fure to mect with the Reciffo de St. Financifio, which they muft take care of.
The Rece/fis are two feparate Ledges of Rocks and Sand, fretching duc N . and S. they lic in Lat. 10 d . 30 m . S. There is a good Channel between them, near a Mile broad, and with 7 Fa. Water; but you ought to be very well acquainted to go thro' it : kecping to the E. of them both, you are fure of s 1010 Fa. all the way to within 3 Ls of the Mouth of the iis) St. Arancifio. There is a large Bank of clear Sand without Rocks, which lies off in the Sca S. by E. from the Reciffs, and due E. from the Main, diftance from the firf abour 4 Ls, and from the latter almoft 5 Ls. 'Tis a large Bank lying N.E. and $S W$. in an oblong Square, $\frac{3}{3}$ Ls in length and about $1 \frac{1}{2}$ in brcadth ; but it is not dangerous, having 6 Fa. on it at the Ieaft: Yet 'us necdful to dircct the finding ir, that Sailors may know where they are, for 'tis a fiure Guide coming from our at Sca, to direct to the Mouth of the Roo St. Priancifice, which

## Directions for the Coaft of Brafil.

re is a long Riff to the Sea to the very good riding. - under the Shore. from this Buy, the way in lics araor, or Lakes ; $\rightarrow$ Ls N.W. and rater, but of 10 from the firft, af: away N. is called and half over. on S.W. to the id Lakes near the do; but we do utc of ; as Lagao , and fercral outo the Lagao de hore full of Shoals, b the fouthward of frrand, and a fair clf.
Rocks and Sands Sboals of RoderiJ.E. and S.S.W. in sood Channel be, where you have s narrow, and you cful, clpecially on
ift. about a L. lic Francifco, being o de St. Francifco. c from TPbarnamvithout the Baxos in 9 to ${ }_{14} \mathrm{Fa}$. in ith the Reciffo de c of.
Rocks and Sand, 30 m . S. There broad, and with ell acquainted to you are fiure of he Mouth of the clear Sand withfrom the Reciffs, firlt about 4 Ls , Bank lying N.E. and about $1 \frac{1}{2}$ in Fa. on it at the , that Sailors may ming from out at Pratucifico, which
ward of this River was for many Years called the Dutch Brafil.
On the N. Bank of the River the Dutcl buile a Fort, which fill retains the Name of Fort Mawritius, clote above which lics the City of Penedo. Between the City and the Sca the River is full of thands, lome of which are very large, as Ruyte';'s Ifland for one: Hither fimall Coafting Ships come to load 'Iobacco, Cocoa, and Fruits.
S.W. by W. from the Mouth of Rio de St. Frantifeo lies the River Serugippa, a much lels River than that of St. Francifoo, but with a better Entrance, having 2 and 3 Fa. on the Bar, and ${ }_{4}$ to ; Fa. feveral Ls up the Chamel. There are 2 Riff of Sand, which thoot out from cither Point directly into the Sea S.E. which make the Entrance about half a L wide; and juft without the northermoft Riff is a little Bay, where there is good anchoring in 6 F.a. good hard Sand, and oppofite to a Portugue $\mathrm{c}_{\mathrm{c}}$ Town called St. Chni/taman, where Shipping gencrally lie to wait for mall Veffels to load them from Rio St. Francifco; the dift. from which River to the Roo Sirugippa is 6 I supon a I.ine; but mealuring round che Sands to come at the Entrance of the River, 'tis full 9 Is.
S.W. from the Moath of this River lies the River lazabaris, the Mouth of which River is allo very much block'd up with Sands, and elpecially one large Sand in the very Entrance, which lics thwart the Chamel two thirds over: but there is a very fair Channel on the W. fide of the Shoal, in which you have 3 to 5 Fa. quite thro' ; and yet witheut the Channcl it is thoaler than in the very Entrance. The Ciry (io the Porthisuefe call it) of Serusippo del Reylies on the N. Shore of this River, about 9 Ls up the Channel, including the Turnings of rhe River; and linall Veffels go quite up to the
Town in 2 Fa. Water.

From hence the Coalt is called, by the Name of the River, the Coaft of Vazabaris, as is alto the next Pomt called $\dot{P}$ un' ta de Vazabaris, which is the N. Point of the Entrance into the Rio 'Pyo W'ic, a large River, as the others are, and a deep Channcl, but barr'd almoft up with Sands at the Mouth; to that you have no where above 2 Fa , at the Entrance, tho there is from 5 to 3 for 10 Ls up the River, and 2 Fa. up to the Town of Pio Wio, which lies near 20 Ls up the River.
S.W. from Rio iVie lics Cabo Coleur, dift. about nols, with no Openings or Rivers between; nor are there any Shoals of Sand or Ledges of Rocks upon the Coaft, but a clean finir Strand; and the tame from Ciabo Coleur to the Mouth of the Rio 'P'unico, the whole Coant lying N.E. and S.W. There are two or three fmall Rivers indied clole to the Cape Gartia dis Villas, but of no importance.

All along this Coatt you have from 15 to $; 0$ Fa. Water good Ground, gradual Shoalings, and a clan Shore: This Depth is found at about 4 to 6 Ls from the shore. In the Rio Ponico you have a very good Habbour, good Anchor Ground, and 5 to 6 Fa. Water.

From the Rio Tonico the Shore liesS.W. by W, to the great


The Reciff's are two feparate Ledges of Rocks and Sand, ftretching duc N . and S . they lic in Lat. no d. 30 m . S. There is a goodChannel between them, near 2 Mile broad, and with 7 Fa. Water; but you ought to be very well acquainted to go thro' it : keeping to the E. of them both, you are liure of is to 10 Fa . all the way to within 3 Ls of the Mouth of the Rio St. Fralicifo. There is a large Bank of clar Sand without Rocks, which lics off in the Sca S. by E. from the Reciffs, and due E. fiom the Main, diftance from the firf about 4 Ls, and from the latter almofts Ls. 'Tis a large Bank lying N.E. and $S W$. in an oblong Squarc, $z$ Ls in length and about $1 \frac{1}{2}$ in breadth; but it is not dangerous, having 6 Fa . on it at the Icalt : Yet 'tis necdful to dircct the finding it, that Sailors may know where they are, for 'tis a furc Guide coming from out at Sca, to direct to the Mouth of the Rio St. Friancifco, which lees exactly 3 Ls S.W. from this Sand.

The Mourh of this great River is very wide, but the Entrance is narrow, being block'd up with three great Sands: The firt is a Riff, which runs from the N.E. Point of Land, and fretches out in two Points like Horns, almoft half Channel over: One S.W. and the other W. by S. Due S. from the S.W. l'oint of the Sand lies a large Flat or Shoal of Sand, triangular in Lorm, the Sides about a L equilateral : The W. fide of this Flat reaches N. almoft to the S.W. Point or Horn of the Ruff latt mention'd, leaving a Channel of about half a Mile only, between them ; and S. almont to another Riff, which firctehcs out E. from in Ifland call'd Ilba des Paffaros, and blocks upthe whole W. part of the Entrance, leaving a Channed leeween the taid Riff and the triangular Shoal much narrower than the other, and very difficult, alfo fhoal and not pathable by Ships of burden.

Thele are the only two Entrances into this great River: The firt Channel has 2 Fa. in it, and the orher but $1 \div$ at low Water ; to that tho this is a noble River when you are entred, yet it admits no Ships of burden. After you are entred, there is 5 to y Fa in the Channel, and the Dutch fearch'd up the River above 40 Ls, and tound it navigable for great Ships $; 0$ Ls, for imaller Ships above 10 Ls farther ; and for Barges and Shallops they fuppote it might be navigable as much farther, the Stream fill appearing to be very large and decp. But all this is to no puppofe as to Navigation, while the Mouth of the River is bar'dupwith Sands and Shoals, and which cannot be remov'd.

The Entrance of the River, atter you are thro' the narrow Pafface, woes in duc N. for about 3 Ls , and then turns N.W. for $;$ more, and then turning agan to the N . for about 6 Ls it turns again N.W. and holds that Courlc as far as we have any Sintrey of it. The W. Point is callid by the Portugucfe 'runta de st. Anthonio; and juft wothin the Point lies the City of St. Antionio, built by the 'Porturucfi.
A. B. This River was the Boundary of the Dutci Conquents in Brafil; from whence all the Coaft to the north.
ks and Sand, m. S. There ad, and with sequainted to u are fiure of Mouth of the :ar Sand withm the Reciffis, about 4 Ls , ak lying N.E. 1 about ${ }_{1} \frac{1}{2}$ in on it at the at Sailors may gem from at mififo, which
but the Engreat Sands: ,int of Land, It half ChancS. from the of Sand, triThe W. fide r Horn of the thalf a Milc r Riff; which Paffaros, and aving a Chanoal much narhoal and not
tr River: The $\div$ at low Ware cutred, yct tred, there is 1 up the River $\mathrm{ips} ; \bigcirc \mathrm{Ls}$, for and Shallops r, the Stream this is to no the River is ot be remov'd. the narrow turns N.W. abour 6 LS it we have any - Portuguçe lies the City

Dutcis Conto the north.

Chame, but barr d amolt up with Sands at the Mouth, to that you have no where above 2 Fa, at the Entrance, tho there is from 5 to 3 for 10 Ls up the River, and a Fa. up to the Town of Pio Wio, which lies near 20 Ls up the River.
S.W. from Rio iVie lics Cabo Colemr, dift. about 10 Ls, with no Openings or Rivers between; nor are there any Shoals of Sand or Ledges of Rocks upon the Coaft, but a clean firir Strand; and the lame from Cabo Coleur to the Mouth of the Rio Ponico, the whole Coafl lying N.E. and S.W. There are two or three finall Rivers indeed clofe to the Cape Gurtia dias Villas, but of no importance.

All along this Coaft you have from 15 to 30 Fa. Water good Ground, gradual Shoalings, and a clean Shore: This Depth is found at about 4 to 6 Ls from the Shore. In the Rio Pomico you have a very good Harbour, good A nchor Ground, and 5 to 6 Fa. Water.

From the Rio Ponico the Shore liesS.W. by W. to the great Babia de todos los Santos, or the Bay of All-Saints; the dift. to Cabo St. Antbonio, which isthe E. Point of the Entrance 11to the Bay, is abour ${ }_{2}$; 1 s. In this Courfe are very few Ruvers or Openings; the chicf is at the Illand Proua de Zainb , lying at the Mouth of the Rio de St. 耳oimina. The Shore tor all this Iength is a clear Strand, the Depths and Offings to be obferv'd as before.
The Mouth of the Bay of All. Saints, like that of the Rivers laft mention'd, is contracted by two Riffs of Sand, (but without Rocks) running out from cach Point : the Bay gocs in duc N. the E. Point is called Cape St. Ant Jonion, and flrctchcs a great way into the Sca W. and from it a Riff of Sand runs out farther W. by S. above a L. fo that they threaten as it were to block up the Mcuth of the Bay, and the rather, becaute oppofite to this Point a long Riff from the other P'oint fhoots out S.E. as if Nature defigucd them to mect, and lock up the Bay, as is the Fate of Rio St. Francifio.
But the Difference is manifift; for tho the Entrance is narrow, compared to the valt Extcnt of the Bay within (being not a full L in breadelh) yet the Channel is decp and fate, having from 20 to ${ }_{2}$ Fa. Water in the very Entrance, and 30 Fa. as well within as without; allo there is from 10 to 16,20 and 30 Fa. up to the $1 / / i$ de Frados, which is above 10 Ls within the Bay, and 7 to 10 and 12 Fa. for 20 Ls farther up the River.

On your Starboard fide, as foon as you are enter'd the Bay. and paft the Cabo St. Anthonio, lies the City of St. Salzadore, in a wide Bay, having a Shoal of Rocks called Baxus de Alherto lying before the Town: on one of which there is a ftrong Fort which commands the Road: and between thefe Rock's and the City is a very good Harbour, where Ships ride wuth great fafety, being well fhelter'd by the Rocks and the Man from all Winds. N. from the Road, and which theters it on that fide allo, lies another Point of Land Shooring W. into the Bay, almoft as far out as the Cabo St. Antionio does S. and a Kiff of Sand running out from it ftill father duc W. almoft a L into the Bay.

## Sailing Directions for the Coaj

Oppofite to thisCity of St. Salvador lies the Ifland Taporica, making a round Point, and running up N.N.W. and N.W. by W. into the Bay, till it comes to a Point called 'Punta de Baleo, making another Bay, in which there are abundance of Shoals too long to deferibe. This leffer Bay has a Channel running from it S.E. into the Sea; and we find by the $\mathcal{D} u t c /$ Accounts that there is a good Depth of Water all the way to the very Mouth of the Channel, but that it fhoals again there in the Nature of a Bar, from 6, 7 and 8 Fa. to 6 Foot; fo that great Ships cannot pafs in or out this way. However, 'tis well guirded with Forts too, by which Ships are lecur'd alfo from Surprizc by armed Boats.

This Chamel running round the W. fide, and between Taforict and the Main, makes it an Ifland. There are many Harbours on the W. Shore of Taporica; the moft that can be faid of the Navigation of the Bay, as to Direction is, that if you are bound farther in, to any of the Rivers, Harbours or Towns within the Bay, you will do well to take a Pilot at $S$ t. Saluador. There are no lefs than ninc Forts upon the Shore of the Bay, from Cape St. Authony to the City; fo that you may be fure to ride in fafety under their Cannon. N. B. The Bay lies in Lat. 12 d .16 m . S.

Likewife Ships ride under the fame Security of Forts and Caftles in the teveral Harbours in the Bay, as upon the N.W. Part of the Ifland Taporica in particular; 'two whercof command the Bay under P'unta de Baleo.
S.W. by W. from the Mouth of the Bay of All-Saints lics the Entrance into the Rio de Comomoan, a great Bay full of iumumerable Inands: The Channel in lics diff. from the Bay of All-Saints 23 Ls. The W. part of it runs up far into the Country, the Coalt and Bay alfo bearing the farne Name, bcing all called Comomoan by their own Charts. Between the Bay of All. Saints and the Rio Comomoan are feveral Inlands confiderable for the Plantations upon them, but no Harbours of note, till we come to the Morro d. Santo Paulo, where there is a very good Harbour under the Fort upou the Ifland, andcalled Fortale $\approx a$ de Morro; here the Coaft lies duc N . and S. The Iflands ranging clofe with the Shore, having onlv finall unnavigable Channels between them and che Main, they are therefore reckon'd as the Coalt of the Main.

South from this Inand liss the Ifland of Suaguaripa; the Channel which pares them is called Barra de Tabatinga, 'tis a fimall Chanel, not for Ships, but Shallops and fmall Boats. On the Inand flands the Villa de St. Authonio, or the Town of St Anthony, clote to the Sca; but the Shore is fo flat off, that theic is no Road or Harbour ncar it.

From the S.E. Point of this Illand which is called Punta de Staa, uar:ipa, goes in the Opening of the Rio de Serinbuan: It is an Inlet among innumerable fllands, and cither goes up into the Country W. or away among many Flats and Shoals, S. into the Rio Comomoan, and up to a Town of the fannc Name S.W. Thefe difficult Places are fo many alfo, that they are not to be deferibed by Book or Chart ; 'tis fufficient to fay, there is a good Depth of Water almoft in all the Chamels, and even far up the Rivers: but you mult take Pilots to carry you

Sca and the S bour, which faff Harbour N. B. Thi vercr, to S. from thi and tho not I good Roads Eutrance : T lic before the Range withe Rocks, altog

On the of from the mi called Nofitra lics between Grando Tayp wide, the Sh to the Babia

From this the Shore, b Shoals as wel the Rio das C N . and S. abo Pafqual, al 22 m . to $\uparrow p$ out to Sca lik Shoal of Sat Baxos de Al

In order which are vo Canal Grant the $E a f(t-I n a$ N. B. T ufially then ite Sailuts, and in is on tha
Befides th nearer the Canal, or Coaiters tha fafe for gre: have Pilots

From the Navios Ind without any times more) bcing ncar 3 a Stranger il of fome Sho

On the E bearing N . a the 'rorthg, is the $1 l b a$,

## ns for the Coaft of Brafil.

Sca and the S.W. Winds, they make within a very good Harbour, which is thercfore called Porto Segaral Feijo, or the Oid fiffe Harbour.
N. B. This is the Harbour P. Al. Cabriota, the fint Difcoverer, took fhelter in; and he gave it the Name.
S. from this Harbour lics the Rio ${ }^{\text {Doce, a River of Bufinefs }}$ and tho not navigable for great Ships far in, yet there are very good Roads without it, as well to the N . as to the S. of the Entrance: This is occafion'd by a longTract of Iflands, which lic before the Mouth of the Port in three or four Ranges, one Range without another, as allo feveral Shoals and Ledges of Rocks, altogether extending along the Shore for near ${ }_{15}$ Ls.

On the off fide of all thele Intands, about a Is to Sca, E. from the middle of them lics an Ifland larger than the reft, called Nofira Cytio de Mareny Fara, from the Paffage which lies between that Illand and the reft, which is called Canal Grando Taypar. Thro' this Channel, which is more than 2 Ls wide, the Ships pafs which coalt all this Sea from Rio Ganiero to the Batbia de todos Los Sarlitos.

From this Canal the Courfe varics a little from the feite of the Shore, becaule of a yet greater Number of lllands and Shoals as well of Rocks as Sands, which lic out into the Sca from the Rio das Caravelos, and off of Panta die Ayufyu, flectching N. and S. about ${ }_{2}$ j Ls, viz. from the great Mountain called the Pafqual, a little S. of the Mouth of Ris facho, in Latr. 17 d . 22 m . to 'Punta de Abreolhos in Lat. 18 d .31 m . They reach out to Sea likewife due E. and W. full 20 Ls to a large Bank or Shoal of Sand, lying duc E. from the Rio de Caravelos, called Baxos de Abreolloos.

In order to pais among thele Iflands and Shoals, fome of which are very dangerous, there are two Channels, one called Canal Grande pour Navios de India, or the great Chanacl for the Ea/t-India Ships.
$N$. B. The Poriaguege Ships from Goa bound to Eizrope, ufially make the Coaft of Brafil about Cape Frio; and then ftecring $N$. come along this Coaft to the Bay of $A l l-$ Saints, in order to revictual, and get Convoy for Lisbon; and in that Courfe patis thro' this C'anal Grande, which is on that Account called the Cbantiel for the India Sbips.
Befides this, there is another Channel among the fame Illands nearer the Shore, which the Dutch Charts call De Klome Canal, or the Little Channel; which fmall Ships, and Coaiters that are well acquainted, often pals; but it is not fafe for great Ships, and efpecially for Strangers, unlefs they have Pilots with them.

From the Canal de Taypas mention'd above to this Cainal de Navios India, the Courle is S.E. dift. 28 Ls, a clear Coaft without any Rocks or Shoals, with 20 to 26 Fa. (and fometimes more) all the wis : Likewife the Channel it Iclf is fair, being near ${ }_{3}$ Ls wide, and 16 to 12 Fa . in the Fair $/ F^{\circ} d y$; but a Stranger thould have the Lead going as he palles; becaule of fome Shoals on the W. fide of the Paffage.

On the E. fide of this Canal Grande lie two other Inands bearing $N$. and S. from one another, the northermolt called by the P'ortuguefe llba Seco, or the DryIfland: The fouthermoit is the Ilba St. Barb, or Barbara. Thereare two very good
de Norro; here the Coaft lies duen. inds. The namas rangmg clofe with the Shore, having only fimall unnavigable Channels between them and the Main, they are therefore reckon'd as the Coalt of the Main.

South from this Ifland lics the Inland of Suaguaripa; the Channel which parts them is called Barra de Tabatinga, 'tis a finall Channel, not for Ships, but Shallops and fmall Boats. On the Illand ftands the Villa de St. Antbonio, or the Town of St Anthony, clofe to the Sca; but the Shore is fo flat off, that there is no Road or Harbour near it.

From the S.E. Point of this Inland which is called Punta de Sluguaripa, goes in the Opening of the Rio de Serinbaan: It is an Inlet among innumerable Illands, and cither goes up into the Country W. or away among many Flats and Shoals, S. into the Rio Comomoan, and up to a Town of the fame Name S.W. Thefe difficult Places are to many allo, that they are not to be defcribed by Book or Chart ; 'tis fifficient to lay, there is a good Depth of Water almoft in all the Chamels, and even far up the Rivers: but you muit take Pilots to carry you to any particular Town or Plantation where-ever you would go.

From Rio Comomoan the Shore is a clean Strand, without any Rocks or Shoals, lying due S. to Rio Contas, the dift. 8 Ls. In this Courfe you have a bold Shore, and may keep to 12 and ${ }_{16} \mathrm{Fa}$. within $\frac{1}{2}$ a L of the Main; but in the River it felf you have no Depth for Veffels of Burden.
$N . B$. From the S.W. end of the Inland Taporica, making the fartheft Land of the Bay of All-Saints, the whole Coaft of Brafil lics duc N. and S. without any confiderable Variation, to Cabo St. Thome, and only allowing two Points Variation, goes on to to Cape Frio, dift. from the Bay of All-Sants to Cape St. 'Thome 165 Ls , as follows.
I'rom Rio das Contas to the Rio das Illjas is 9 Ls, the Courfe the tame, due S. The N. Point of the Entrance is called Putzta de Caon: the Mouth of this River is block'd up with Inands, from whence I fuppoie it had its name, the River of Iflands; yet there is 3 Fa . Water in the Entrance, and a good Harbour on the N. fide of the River, under the Fort de Caon, where you may anchor in 4 Fa . well tecur'd; allo higher up on the other Shore, where there are fome PPortuguefe Settlements. This River, as it is full of Ingenios and Sugar-Works, fo it has much Trade; a great number of Ships come hither in load Sugars for the Lisbon Fleets, and carrying it to the Bay fo: the greater Ships: The S. Point of this River is called 'Praya de Zamba.

As the Coaft trends away duc S. for fo manyLs, fo the Rivers generally go in due W. (very few excepted.) The firft of note is called the Rio Grande, tho not fo great a River as fome others " the fame Name; the Entrance is not deep enough for great Shipe. Off of the next Shore S. lies a long Ledge of Rocks, calied Baxos de St. Antbonio, becaule they reach from the S. Point of the Rio de St. Antioninio almoft to the S. Point of the Rio Grayde. This I edge of Rocks runs out N.W. from the Rin de St. Anthonio, flanting from the Shore about a L at firft, fo eacrealing to above 2 Ls; at laft, when by kecping off the

כ 7 Ints, and in is on th Befides nearer the Canal, or Coafters t fafe for gr have Pilot

From th Navios In without ar times more bcing near a Stranger of fome On the bearing N . the Tortul is the Illja Roads unc right again and whate there is go to procced fecur'd by othcr, one and the ot
From th ing in with to the Bay India abot Inthis C Roads any the Traffic and emplo a Town of dea. Bet the Shore ring in tho an inland Reys Mag med fo fro Main. $O$ Cape calld
The N . is called Channel T'orta, w fide of th de Spirito of $A \approx a r e$. Town ne: the Numb
 and in that Courfe pals thro' this Canal Cirmate, which is on that Account called the Chanitel for the India Ships.
Befides this, there is another Channel among the fame lllands nearer the Shore, which the $\mathcal{D}_{\text {utel }}$ Charts call $D_{0}$ © K. ${ }^{\prime}$ ine Canal, or the Little Cbannel; which finall Ships, and Coafters that are well acquainted, often pafs; but it is not fafe for great Ships, and efpecially for Strangers, unlefs they have Pilots with them.

From the Canal de Taypas mention'd above to this Canal de Navios Iudia, the Courle is S.E. dift. 28 Ls, a clear Coaft without any Rocks or Shoals, with 20 to 26 Fa . (and fometimes more) all the wiy : Likewife the Channel it felf is fair, being near 3 Ls wide, and 16 to 12 Fa. in the Fair Way; but a Stranger thould have the Lead going as he paffes; becaufe of fome Shoals on the W. fide of the Paffage.

On the E. fide of this Canal Grande lie two other Iflands bearing N . and S . from one another, the northermoft called by the Portugaefe Ilba Seco, or the DryIflaid: The touthermolt is the Ilba St. Barb, or Barbara. There are two very good Roads under this Illand, one on the S.W. fide, and the other right againft it on the N.E. fide; fo that whatever Wind blows, and whatever Diftrefs a Ship may be put to by bad Weather, there is good Security here till Wind and Weather allow them to proceed. The Road on the N.E. fide of the Ifland is likewife fecur'd by two other lilands lying on the out or E. fide of the other, one calicd Illa Monte das Pedras, or the fony Mount, and the other Illsa dos Paffaros.

From thefe Chaunels you have a fair Coaft again ; and bearing in with the Shore S.W. you go on due S. again, as before, to the Bay of Spirito Sancto, dift. from the Cianal de N'avios India about 35 Ls.

Inthis Courle you have a great Number of Baysand Harbours, Roads and Rivers; and the Coalt is adapted for Shipping, as the Traffick of the Country is for furnifhing Goods to freight and employ them. Thele Ports are Rio dos Reys Magos, with a Town of the fame Name about 7 Ls farther S. on the Rio Aldea. Between them is another Rio Doce, and a high Hill on the Shore called Monte dos Reys Magos. There is good anchoring in the Mouth of the Rio dos Reys Magos, within or behiad an Ifland called the Goeree, as likewife before the Monte dos Reys Magos, behind another Ifland called Ilba de Repofia, named fo from the fafe, Harbour or Road between that and the Main. On the S. fide of this Illand the Land forms a large Cape called Punta Pera Coam.

The N. Point of the Entrance into the Rio de Spirito Sancto is called Cape Tuberaon: here is a good Entrance, and a bold Channel up to the Town, which is called Porta, or "illa de Torta, where much Shipping is employed, likewile on the S. fide of the Ifland de Don :Huga, which lies within the Ria de Spirito Sancto. There is good anchoring before the Town of $A \approx a r e d o$, which is a noted Port for loating Sugar; and a Town near the Point is called Pan de Sucre, or Sugur, fiom the Number of Plantations of Sugar abour it.

7 Ls farther S. from P'an di Sucre lies the Rio Gitaropiny; and from thence the Coalt reaches ftillS. without any confiderable Places, except the Lagos de Grande Pifiaria, to Cape St. Thome, or St. Thomas, dift. from Rio Guaropary about 23 Ls. This fifhing Lake is noted, becaufe many Veffels are employed in filhing upon it ; it lies in due W. as the other Rivers do, but immediatcly fipreads $N$. and $S$. The Mouth of the River is not above a mile over, but the Lake it felt fireads to above = Ls broad every way; and being very deep, has abundance of good Fifh, which brings many Veffels to it, as above.

From Cape St. Thome the Shore falls off W. and changes the Courfe for about $\quad$ o I.s to Cape Frio, making a Gulph or Bay of near that Breadth, Cape Frio not coming out to far E. as Cape st. Thome; the Courle in a Line from Cape to Cape lies S S.W. and N.N.E.

In this Gulph are fome fimall Iflands, Rivers and Harbours, as Rio Sabador, and Rio des Bagenes, and others. Here is good anchoring within the two llics of St. Allue, under the N. fide of Cape de Irada. Allo about ${ }^{4}$ L.s S. are fome other Incs, called the Tlaree Jfies of St. Alue, South of which ftands a vory high Mountain called Monte Morro, which is feen far at Sca, and by which the Coaft is to be known.
S. by E. from that Hill opens the Rio de Fermoza, a large River, but not a decp Channel: and from thence the Shore puhtes out again S.S.E. to Cape Frio, dift. 8 Ls.

From C'ape Frio to the R io fanciro the Courle lies W. by N. dift. about $12 \mathrm{Ls}, \tau i=.10$ Ls to St. Maria, and 2 from thence to the opening of the Riofauciro.
N. B. This is the third and moft foutherly Port, from whence the Brafilian Flects load for Europe; the other being the Bay of All-Saints and the River of whermanbuquo.
The Road in this Harbour is on the S. Shore of the River or Entrance before the Town of St. Sebaftian, called alfo "Fauibr, 'tis well fecur'd boch from Enemics and Winds; it is fecurd from the cafterly and S.E. Winds by a Point of Land rumning out into the Bay, called St. Iago, with a ftrong Fort upon it; and from N.E. Winds by the Mland Cobras, within whici Ships ufually ride at anchor in 8 Fa.

The Entrance into this Port at the Mouth of the River is very good, bat narrow, two Inlands and a broad Riff on the W. Point lying juft thwart the Mouth of it: The eaftermoft of thefe is called Santa Cruz, and is wholly inclofed in a Royal Fortification called Fortcleaade St. Cruz, which joins to the Nain, except a very narrow unpaffable Channel: The other is called Ilba Lagoa. Between thele two Iflands goes in the main Entrance into the River, called Barra Grauda; it is a good Channel, tho narrow, having 15 Fa. in the Fair IWay, palling clofe under the Cannon of the Fort. Between the malier Ifland and the Main, being the W. Point of the Entrance, is a fmall Channel called Barra de Nova Fiunda; and on the W. fide of the Channel, tho not paffable by great Ships, there is another Fort called 'Paon de Sequero, to fecure the Chanel from Shallons and fimall Boats.

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N. B. Grand at the almoft out, fo N. $B$. From th Inand $M a$ do Pudra. 6Fa.Water of Larged Illo Giran
W.N.W Guayendy. other limal Bay to the very gooc Bay lics di
from tl a little to Illand of 5 note to t des Porca a Road fo under a C Caftillian you muft them; an bia or $B a$ of dos Sal of the En St.Vincen Sallitos, fore the T Rivers co fended wi ther Chan this Gulpt ver is all Harbours
W. by about Town ca Port of g again tow Coaft lics founc fina of the C gation of tor thelen

## mns for the Coaft of Brafil.

Within the Illand goes up the izoo de Concef con, on the S. fide of which, 3 Ls from that lland, is the City as they now call it of Augra dos Reys, formerly called Senftra S'mora de la Concep fon; where Provifions are alfo had very reafonable.
N. B. As you come into the Road on the infide of Ilhas Grinde, at the northerly end of the Illand, fo you go out at the foutherly: both the Paflages are bold and good, and almoft the fame Wind that carries you in may carry you out, for you go in from N.N.W. and come out to the E.S.E. N. B. Illan Giraide lies in Lat. 23 d. $5 \mathrm{~m} . \mathrm{S}$.

From the Rio Gautiro the Coaft gocs away W. by N. to the Inand Marcmbaga; and then, leaving an Inlet for the Catal do Padras, or the Cbamuel of the liathers, in which there is 6Fa.Water,gocs ou to the Ilbade Girumd Ingenior, or the Inand of Large Suggr-houffes, which is behind that which we call Ilba Giradde. Behind this Itland comes in the River '' 'atagor.
W.N.W. from this Illand goes in the Entrance of the Rio Ghagendy. which opens into a large Bay, into which teveral other fimaller Rivers empry themelves. At the bottom of this Bay to the W.N.W. Iies the City of Augra dos Reys: There is very good anchoring in this Bay in almoft any Depth. This Bay lies duc W. from Ciape frio, dift. about 53 L .

From the Bay of Alngra dos Reys the Land thrults out agan a little to the fouthward, and trends away S.W. by W. to the Itland of St. Sebaffiano. There are feveral other Illands of leffer note to the eaflward of this Ifland, as Ilba delvificrit, Ilba des Porcas, or the Ifle of Hogs, and fome others. There is a Road for fimall Ships between this Ifle of Hows and the Main, under a Cape on the S.E. Point of the Iiland called $\%$ 'unta dos Caffillianos, but the reft are foul. In hailing to the fourhward, you mult go without all thete Itlands, and feveral more beyond them; and ftecring due $W$. about so L.s. you come to the lia-
hc River alfo \%ait is fc and runFort up, within

River is Fon the ftermof a Royal ss to the the other cs in the $a$; is is a hir IVay, veen the the En-
Fituda; by great to fecure bia or Barva dos Sancios, that is, to Saints Bay. The City of dos Sanctos lies in an llland called Amiaz, on the W. fide of the Entrance into the Harbour, as docs allo the Town of St. Vintent. There is good anchoring before the Port of dos Sanctos, and alfo farther up at the N.E. cand of the Illand before the Town of St. Vincent. There are abundance of finall Rivers come into this Gulph or Bay, and all the Ports well defended with Forts. On the W. fide of the Illand goes in the other Chanucl called Barro de St.Vincento. The upper part of this Gulph turns away N.E. to Aldea de Trinidade. This River is all the way navigable, and in it there are feveral good Harbours for fmall Ships.
W. by S. from this Port lics another Rio Grande, diftant about 10 Ls : at the N.E. Point of it lics a huall Town called Nofltra Seniora de Candillao, but this is not a Port of great bufinetis. From this River the Land draws round again towards the S. in a large Bay, but not decp in. fill the Coaft lics duc N. and S. to the Ilba de st. Cather rua. There are fome fimall Rivers and Bays between; but as the rrading part of the Coalt of Brafils is now almoft over, the greateft Navigation of this part is for Provifions or tor Hidee, etpectally

ning outhito the Bay, called St. Iaso, with a flrong Fort upon it; and from N.E. Winds by the Ifland Cobror, within which Ships ufitally ride at anchor in 8 Fa.

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Within the Bay, but without the Point mention'd above, lies an Mland called Ongallamo, S. of the Ifland: there is a good Road in 20 to $28^{\circ}$ Fa. and here the great Ships wait for a Wind to carry them in and out, as their Courle guides them. The Bay goes up N. beyond that Road 6 or 7 Ls; the Ships go to feveral Ports and Crecks within to load and unload : but if you are bound up, you may have a Pilot at St. Sebafitian, for all the Bay.

Here lies a long Inand parallel with the Shore, called Ilba Granda, being a Place frequently made ufc of by the Euglifls, and Frenc', Ships bound to the South-Seas to victual and refreth, and clpecially to lay in Stores for fo long a Run; as particularly the two Briflol Cruizers (the 7)uke and Thutclue/s) did, of whom hereafter, and as Captain Dampier and others had formerly done, and of late the French Traders to the South-Scas do the like.

When you make this part of the Coaft, coming the ordinary Courle from the Coaft of Africa, you generally find Cape Frio bears W. or W. by S. and that you make the Hills above the Cape at $S$ or 9 Ls dift. if clear Weather; then ftanding away W.S.W. and leaving the Cape on your Starboard fide, you keep off in to to 50 Fa. where you have good Soundings quite in to the Shore : then flanting to the W. and W. by N. (for to the Shore trends) and pafling the Rio Janciro, you come with the N.E. end of the hland, called Ilba Grande, where you may bring too, and anchor in 1 I Fa. in the Entrance of the Harbour.

The Harbour goes in W. by S. after you are thro' the firft Opening. There is a remarkable white Rock on your Larboard fide, as you go into the Bay; and it bears S.E. as yougo in, dift. about a mile and half. The Entrance lics above 5 Is in the Bay; the Place where the Ships ride, is on the W. fide of the Inland, between that and the Main; and there are feveral good Coves, where Ships tow in to lie cafy, and where they have the beft Convenience both to wood and water. ar, within
c River is iff on the caftermoft in a Royal ins to the The other ocs in the eda; it is a Fair IV ay, etween the of the Enca Fiunda; le by great to fecure
n'd above, : there is os wait for uides then. e Slips go ad : but if aftian, for
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the ordifind Cape Hills above flanding a$\pm$ fide, you Soundings W. by N . neiro, you ba Grande, ic Entrance
ro' the firt your Lar. as yougo cs above s on the $W$. d there are and where ratcr.

Sanitor, malalo firther up at the N.E. end of the Ilhand before the Town of St. Vancentt. There are abundance of timall Rivers come into this Gulph or Bay, and all the Ports well defended with Forts. On the W. fide of the fland goes in the o. ther Chanuel called Barro de St. Vincento. The upper part of this Gulph turns away N.E. to Abdea de Trimidade. This River is all the way unvigable, and in it there are feveral good Harbours for finall Ships.
W. by S. from this Port lies another Rin Grande, diftant about 10 Ls : at the N.E. Point of it lics a tmall Town called Noftra Seniora de Candillan, but this is not a Port of great bufinets. From this River the Land draws round again towards the S. in a large B.y, but not deep in. till the Coaft lies due N. and S. to the lhad de ©t. Cathertha. There are fome fimall Rivers and Bays berween; but as the trading pare of the Coaft of Brafits is now almoft over, the greateft Navigation of this part is for Provifions or tor Hidec, etpectally for fheter for Ships bound farther $S$. and rhisis lic reaton of the Ifland of St. Catherines beng otten vifited by Eimenoiane Ships, eiza. for frech Water and Provifions. The Mland atfords very good anchoring in feveral Parts of it, elpecially on the Coalt next the Main, as docs allo the Illoc Alvorecido, which lies 3 Ls to the S. of it.

The Ifland St. Catherines or Illsa di' Catherina, lics in I.at. $27 \mathrm{~d} .5=\mathrm{m}$, to 28 d .20 m . The Illand of (iall, or Gale, bears N.E. by E. from it, dift.about ${ }_{3}$ Ls, and in a Line with the two modt northerly Points of St. Catherime, and with the N. by E. Point of the main Land of Brafil.

The Road or Anchoring.place is on the infide of the Ifland, between the Ifland and the Main, where you have a lite Shore, good Ground, and what Depth of Water you pleate; but the bef Place for Provifions is at the S.W. end of the Illand, where there are great Numbers of black Cattle kept on purpofe for the Supply of Ships which ule the Coant, and is the chice Trade of the Place.

There is a narrow Streight between the middle of the Ifland and the Main, where the Channel is not above 200 Fa . wide, and not above $2 \div$ Fa. Water in it; nor when you are thro', is there a Depth fufficient for a great Ship; fo the Ships of Burden go about the S. part of the Ifland into the Bay of Alo. zatiba, where there is an excellent Road well fecur'd.

However, that Road is out of the way, it being not cafy to go in and out: and Ships bound to the fouthward chule to ride at the $N$. end of the Illand, and fend their Shallops and Boats thro' the inner Strcight, to purchafe Provifions. The Tides here run fharp, Lut very irregular, and feldom rule above 5 or 6 Foot upon the Flood.
From the Illand of St. Catherine the Land trends away S.W. to the 'Porto de St. Pedro, and thence to the Cape S". Maria, which ends the long extended Coaft of $\operatorname{Braf} / i \mathrm{l}$ upon the fide of the Ocean, and makes the N. Point of the Entrance, or great Opening of the Rio de la Plata. Cape St. Muria lics in Lat.

## Sailing Directions for the Eas

i. d. 45 m . S. and Cape St. Anthonio, which is the oppofite Cupe, lies in Lat. 35 d .50 m . fo that the Mouth of the River is above ${ }_{2} 3$ Ls wide, not 60 , as fome Writers have affirmed.

The Coaft of Brafil from St. Catlocrine hither has very little to deficribe, being a wild Country, like the N. Coalt; nor have we any exadt Survey of it, other than to let us know in general that great part of the Coaft is defiart and unplanted, at lealt by Europeans. The Iflands of the Caffillios finith the

## Sailing Directions for the Coaft of South A M five to the Streights of Magellan exclufive, a de la Mare, and about Cape Horne on the 1 of Magellan in the South-Seas.



HE Portuguefe being wholly Mafters of the Country and Coaft of Brafils to Cabo St. Maria in the Mouth of the Rio de la $P$ lata, they are confequently Mafters of the N. Shore of the River allo, far up the Channel; and as the Spaniards have the Port and Harbour of Buenos Ayres on the S. fide, ncar 70 I.s within the River, fo the Portuguefe are Mafters of the Rio St. \%tuan, or St. Goinn, 10 Ls higher up the Stream on the other Shore, and of all the Crecks, Harbours, Ports and Rivers on the Shore, between that part and the Cape St. Mary's E. 'Tis almoft 30 Ls N.W. from this River of St. Yobn to the parting of the main Rivers, where the grear Rivers $P a-$ rana and Paragtay fall into the Channel ; and where, tho roo Ls from the Sca, yet the breadth of the River is at leaft 10 Ls over.

Upon all this Coaft the Portuguefe have a confiderable Commerce ; but as that is not our bufincfs here, we thall fpeak only to the Shipping and the Navigation. The Channel of the River being fo exceeding broad, and the Current rapid to fuch a degrec, as that the frefl Water is taken up far out to Sca, it cannot be expected it flould be extraordinary decp, much lefs frec from Sands and Shoals, cfpecially in its Entrance into the Sca : But that it fhould be entirely barr'd over from Shore to Shore with a Sand, on which there is but $2 \frac{1}{2}$ Fa. Water, is fomething wonderful, cfpecially fecing feveral Draughts and Charts publifh'd in other Languages take no notice of it ; but as the Dutch, Charts exprefly fay fo, we flall leave it as we find it ; fonc faying it is able to carry great Ships 200 Ls up the Chanuel, and others juft the contrary. Under the N. Shore, and for 10 to $1_{2}$ Ls offinto the Channel of the River, they have from to to $2_{5}$ Fa. as high as the Baxos de Ingros, which is about 12 Ls up the River.

This Sand is very large, and lies far over thwart the Chajnel, having a Tail or Spit reaching out S.W. the whole ftretching out is L. s in length : yet I lay, the Channcl on the N . Shore is reckon'd to be very fair, and has from to to 25 Fa. but beyond that Shoal the greatef Depth they give an Account of is from 5 to 3 Fa. But as in certain Seafons the quantity of Watcr from the Mountains, cfipecially in the Rio $P_{a}$ -
-h is the oppofite Coaft, lying out to the northward of Cape St. Marin, where outh of the River $s$ have affirmed. hither has very litthe N. Coalt; nor to let us know in and unplanted, at aflillios finilh the
there is good Riding, efjeccially within the moft northerly Ifland of them. But there is little to be had but Anchorage : for the Country is mountainous, and the Shore foul. Under the Cape, a little to the weftward of the Pitch of the Shore, is a very good Road for northerly and wefterly Winds, in iot 12 Fa. oppofite to the Ine Dos Lobos, which is the firt Inand within the Riode la Plata.
of South A MERICA, from the Rio de la Plata inclulan exclufive, and thence thro' thofe Streights to the Streight Horne on the Terra del Fuego to the Mouth of the Streights as.
afters of the Counost. Maria in the eey are conlequentthe River alfo, far paniards have the he S. fide, near 70 Mafters of the Rio the Stream on the arbours, Ports and the Cape St. Ma$s$ River of St. 70 bn ce great Rivers Pamd where, tho 100 ver is at leaft ${ }_{10}$ Ls
lave a confiderable iere, we flall fpeak The Channel of the urrent rapid to fuch up far out to Sca , it ry decp, much lefs s Entrance into the d over from Shore but $2 \frac{1}{2} \mathrm{Fa}$. Water, everal Draughts and o notice of it ; but flall leave it as we eat Ships 200 Ls up Under the N. Shore, of the River, they oos de Ingros, which
er thwart the ChainV. the whole ftretchChannel on the N . as from io to $=5 \mathrm{Fa}$. $h$ they give an Acin Scalons the quanally in the Rio $P a-$
given fome Account of the Port: But all allow, that from the Rio de la 'Plata thither there is nothing worth notice, no Bufincls for Shipping, or Succour or Relici for Men, except Fiflh, frelh Water, Scals, Penguins, and fuch like.

It is truc, there are other Harbours on this Coaft before Port St. \%uliant, as Cape Blanco, which was the firt Land that Sir "folm Narbrough made of Amcrica in his whole Voyage, having not feen the Coalt of the Brafils at all; it lies in Lat. 47 d. 14 m . by Account, not by Obtervation. S. of Cape Blanco lie the feveral Anchoring-places of Port Tiffere. Seals Bay, Spirings Bay, and others, in all which the Admiral found both Provifions and Shelter ; but his Provifions were only Seals, Pcuguins and Fifh, very little frelh Water, and nothing on Shore.
$N . B$. The Flood fets along this Coaft very frong to the northward.
 brough only, lying 8 LS N.E. from SealsBay: To take then in order ; Spirings Bay lies to the N.W. you have 21 Fa. in this Bay, being 2 L.s wide, and about 3 Ls deep; it goes in rounding with a Point towards the N.N.W. upon which rounding Point are feveral high black Rocks, which make at Sea like a ragged building with a Tower on it. The Shore coming from the northward fliews ftecp, with black Rocks, a low Strand, and fome Bays, with Pebble Stoncs and a fandy Bcach, Grals upoo the Hills, but no Wood or frefl Water to be got on all that part of the Coaft.

The Land on the N.E. Point of Spirings Bay makes out full. like a bluff Point or a Foreland, being a fair high Land in large plain Hills. Off of this Foreland lic the rocky llands mention'd above, the ncareft about Musket-lhot from the Main, the reft farther out ; they are fix in all ; the outcrmoft is the largelt, a mile from the Main, and is called Penguin I/ha:d; it lics N.N.E. and SS.W. about $\frac{1}{4}$ of a mile in lengtin, and about half a mile broad E. and W. it lies high at the Ends, and low in the Middle; it is all a Rock and uninhabited, but abounds with Pengnins and Scals, which laft lic fpread upon the Sands, about the fides and upon the tops of the highoft Rocks.
Many Rocks and foul Grounds lie annong thofe illands; you
a degree, as that the frefh Water is taken up far out to Sea, it cannot be expected it floould be extraordinary decp, much lefs free from Sands and Shoals, efpecially in its Entrance into the Sca : But that it flould be entirely barr'd over from Shore to Shore with a Sand, on which there is but $2 \pm$ Fa. Water, is fomething wonderful, efpecially fecing feveral Draughts and Charts publin'd in other Languages take no notice of it ; but as the Dutch Charts exprefly fay fo, we flall leave it as we find it ; fome faying it is able to carry great Ships 200 Ls up the Chanisel, and others juft the contrary. Under the N. Shore, and for 10 to 12 Ls off into the Channel of the River, they have from 10 to 2 ; ra. as ligh as the Baxos de Incros, which is about 12 Ls up the River.

This Sand is very large, and lies far over thwart the Channel, having a Tail or Spit reaching out S.W. the whole ftretching out 15 Ls in length: yet I lay, the Channel on the N . Shore is reckon'd to be very fair, and has from 10 to 25 Fa. but beyond that Shoal the greateft Depth they give an Account of is from 5 to 3 Fa . But as in certain Scafons the quantity of Water from the Mountains, elpeciaily in the Rio Paraguay which comes from the Lakes near the Line, being very great, we may fuppete the Depihs of Water are increafed, as we fee ufuilly in other Rivers which come from the fame Latirudes; and by that Account the differing Relations may be reconciled, viz. that that River is decp or fhoal, as the Scafons alter the Cliannel.

The Port of Buenos Ayres lies on the S. Shore of the River about 70 Ls , and about 10 Ls above the Bar mention'd before : on which Bar, by the faid Dutcls Charts, there is but $2 \frac{1}{2}$ Fa. Water, nor is it deeper by the fame Charts in the Harbour of Buchos Alyres it fellf.

From Buenos Ayres to the Mouth of the River on the S. Shore we have no exact Survey, or Account of the Depths and Soundings of the Shore; nor are there any Towns or Inhabitants found upon the Shore, to form any bufinefs for Ships to come there: What may be done for the future upon the Eugli/h being allowed a Trade in that River, is not to the preicut purpole.

In like manner, from Cape St. Ant Jonio fouthward for many Leagucs, nothing can be faid in particular, but what is gathered from the Accounts of thofe Navigators, who have called here in their Voyages to the Soutl. Sea, fuch as Magellan, Le Mare, Drake, Sir Fobn Narbrough, and others; it may be properly called a Cofta Deferta, as it is by the Spani:ards, there being no Inhabitants fettled in any particular Place for a great many Ls, viz, from Lat. $=6 \frac{1}{2}$ to 47 or 49 d .

The firft Place of note we find mention'd, is Port St. 7ulian, where feveral Eurofran Ships have winter'd, efpecially while the pafling thro' the Fretum Magellanicum was in ufe: among others we find Ferdinand Magellanticus fopt hercabouts in his firf Difcovery of the Streight it felf, Anno 1519. af ter him Sir Francis 'Drake, and Sir 'Jolm Narbrough, who have
far out to Sca , it decp, much lefs Entrance into the over from Shore ut $2 \div$ Fa. Water, cral Draughts and notice of it ; but all leave it as we thips 200 Ls up nder the N. Shore, f the River, they de Introos, which
thwart the Chanthe whole ftretch. hannel on the N . from 10 to 25 Fa . they give an Ac. Scafons the quanly in the Rio Pale Linc, being very or are increaled, as rom the fame Latilations may be reoal, as the Scafons

Shore of the River mention'd before : here is but $2 \frac{1}{2} \mathrm{Fa}$. in the Harbour of
he River on the S . unt of the Depths any Towns or 1 n y bufincfs for Ships he future upon the is not to the pre-
outhward for many but what is gather, who have called ha as Magellan, Le prhers ; it may bc by the Spaniards, rticular Place for a r 4.9 d.
d , is Port St. $7 u$ finter'd, efpecially nicum was in ufe: us fopr hereabouts f, Amuo 1519. af rbrough, who have

Bay, being 2 L.s wide, and about 3 Ls deep; it gocs in rounding with a Point towards the N.N.W. upon which rounding Point are feveral high black Rocks, which make at Sea like a ragged buiiding with a Tower on it. The Shore coming f:om the northward flews fteep, with Elack Rocks, a low Stran I, and fome Bays, with Pebble Stoncs and a fandy Beach, Grals upou the Hills, but no Wood or frefh Water to be got on all
that part of the Coaft that part of the Coaft.

The Land on the N.E. Point of Spirings Bay makes out full, like a bluff Point or a Foreland, being a fair high Land in large plain Hills. Off of this Forcland lie the rocky llands men. tion'd above, the ncareft about Musket-fhot from tiec Main. the reft farther out ; they are fix in all ; the outcrmoft is the largeft, a mile from the Main, and is called 'Pcuguin IJaizid; it lics N.N.E. and S.S.W. about $\frac{1}{4}$ of a mile in length, and about half a mile broad E. and W. it lies high at the Ends, and low in the Middle; it is all a Rock and uninhabited, bur abounds with Penguins and Scals, which laft lic fpread upon the Sands, about the fides and upon the tops of the highoct Rocks.

Many Rocks and foul Grounds lie among thofe illands; you muft therefore keep off about 2 Ls to Sca, and fend your Boat on Shore for what you want. You may load a good large Long-Boat in an hour with Penguins only, mean time your Ship may ftand off and on, or go to the northward to Porit Defire.

Pori $\mathcal{D e f i r e}$ lics to the northward of thefe Iflands, and N.N.W. from this Penguin Ifland in particular, dift. abour 3 Ls , in a Bay of 4 Ls broad and $1 \frac{1}{2}$ decp.

About the middle of this Bay lie feveral white Cliff for about 2 miles in length ; on the top of them the Land is plain, but the Country behind them lies in high round Hills and Downs, floping low towards the Water-fide: By all thele Marks the Coaft is to be known. On the S. fide of the Bay there is a fandy Cove, very convenient to hale a Beat ois Shore in foul Wcather ; and over it a Range of craggy broken Rock; which look like a Wall.
Here Sir fobn founded the Harbour, and found it deep enough for great Ships at low Water; but nothing on Shore, all wafle, and neither Wood nor Water as before. This I take to be the fame which he calls Coopers Bay, and the Harbour in it Poit Defirc. In this Harbour 7acob Le Mare and his Company in the Ship Hornc put in and ftaid near fix Wecks to reffeilh. And here he fet up a Poft with an Infeription, which Sir $7 /{ }_{0}$ bn found and brought away, giving an Account of their Namiss and Ship's Name, and the Date, viz. the roth of 7asatay 1616. The Spot of Land where it ftood he called Lic Maris Ifland, for it was at a fmall dift. from the Main.
N. B. Port 'Defire lies in Lat. 47 d. 48 m . S. in L.ongit. fron the Liะard W. 6I d 56 m . and in Meridian ditt. from the Lizard W. 1014 Ls $\frac{1}{1}$. the Variation of the Compafs ${ }_{17}$ d. 10 m. cafterly.
N. B,

## Sailing Direilions for $t$

N. B. Scals Ray lies in Lat. 48 d .10 m the I.and is called the Coalt of Patagonia. The Coaft from hence towards Port St. Yulian lies S.S.W. and S. by W. the Depth of Water 20 Fa. 3 Ls from the Shore, the Ground a black Sand.
S.S.W. of thofe lilands and Ports lies another frmall nameIcts Itland I L from the Chare ; the Land is flat and low, it lies in Lat. 48 d .40 m . the Main againt it is momeamous, and the Hills very large and fireading as well as high with pointed
copling Tops, the Land low and fpreading into a great Plain; and a Beach hes all along the Shore, excepe juft againf the Illand, where it is rocky and foul.

In an Offing of a Ls from this low lfland you will have $2 ;$ Fi. all black Sand; but you may fail within $\rho$ miles of the Main in is to 20 Fa . in which calc you go clofe under the Shore of the liland.
All along from hence to Por: St. Yulian you have the fane depth and the fame ciround, and the shore a kind of B.y, with a long Bcach; which, with here and there a Rock on it, holds for + Ls together, being a L to the fouthward of this tlat Inland, the shore lying itill S.S.W. and N.N.E. At the fouthermeft and of the long beach the Land within rifes in high round Hills; and at the $S c a$ fide there is a large white Cliff indifferent high, ftretching almoft to Port St. Yutian.

Over the white Cliff the Land rounds up to the top of the Hells, and you will fee under it upon the Cliff a long black Strake in the white, lake a Vein of Flints in a Chalk Rock ; by all which Marks you will certainly know the Place. The Hills may have fome fimall black Bufhes upon their fides, but none on the top: nor is there any Wood or Trees to be feen.

In this Bay lics the Poot St.fulian ; the going in lies W. in the middle of the Bay: yet you cannot fee it in the Offing, becaufe one Point fluts in the other, fhooting out E.S.E. the Harbour going in W.S.W. you mult therefore icnd in your Boat to difcoter the Harbour, and to found the Bar, which thould be done at low Water, and not omitted, Ieft the Bar thould thift and alter between the former Soundngs and the time you come there.
The Land belind the Harbour lics in high rifing Hills, flandwig thick together like blunt Sugar-Loaves, being the higheft Land to be lecn on all the Coaft. In the Bay jou have 12 Fa. black ouzy Sand, oppofite to the I Iarbour, dift. E.N.E. 2 Ls.
$N^{\prime} . B$. The Tides flow andebb here 3 Fa. right up and down.
This Port is dift. from the flat Ifland near 9 Ls, the Courfe as before S.S.W. N. B. The Entrance into the Harbour l:cs in Lat. 49 d .10 m . Longit. from the Lizard 6 ; d. 10 m . Mcridian dift. from the Lizard 1030 Ls ; Variation of the Compats 16 d. 10 m . Faft.
The Harbour is taff, and Ships ride fecur'd from all Winds : alfo the Points reaching out before one another, kecp of the

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## Directions for the Streights of Magellan.

Land is called hance towards the Depth of jround a black
cr finall namelat :and low, it runtaincus, and hh with pointed a a grat Plain; juft againft the
on will have 23 5 miles of the under the Shore
a have the fane nd of B. 1 , with ck on it, holds this flat iflaud, outhermoft cad h round Hills; adiffercut high,
the top of the ff a long black halk Rock ; by lace. The Hills fides, but none o be fecn.
ing in lies W. in : in the Offing, out E.S.E. the nd in your Boat , which thould the Bar fhould id the time you
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rom all Winds : r , kecp off the fing.
not for want of

Abundance of Filh, Fowl, and Scals, for Provifionare cyery where to be found, but nothing on Shore for Suftenance but Salt, of whinch Sir \%obn fays there was enough to load a thoufand Ships, very white and good.
N. B. Stars near the S. Pole are very vifible here, and ufful to Sailors, tho none fit for Obfervation nearer the Pole than 18 d. And in particular no Pole-Star, as the Star in the Tail of the $V_{r i}$ Minor is to us at the North-Pole.
From hence fouthward is nothing worth a Sailor's Notice, no Bay to ride in, or Harbour to winter in : the Coaft indeed is tair, and there is a River opens into the Sca called the Galogos, in Lat. $g_{2} \mathrm{~d} .5 \mathrm{~m}$. and a long Shoal, with feveral other Shoals without it, reaching from Lat. 5 d .30 m . to the Mouth of the River Galigos, and lying s L.s E. and W. from the Shore. There is good anchoring without thefe Shoals in 12 to 25 Fa. pretty near to them; but the beft of the Courle is to kec , 3 to +Ls without them, till yon come to 52 d .20 m . Lat. then itand $m$ again to the uflual Oifing of 3 Ls, where you will have from 28 to 30 Fa, and a clean coult all the way to Ca. l'argin Alary, as Sir "Yobn Narbro' calls it, or Capp 1 roco l'irgins, as the Spaniards call it, which is the N. Point of the Entrance into the Strozibes of Majellan.

Before you make the Serceight, you pais by St. Wees, which is a high Hill on the Main, and a ?ont which they caled Beachy-lucad, Lat. 50 d .10 m . the Variation 16 d .97 m . cafterly. Here in a little Bay comes in the River Samta Cruz. Tha y you pals Fair Weatber Cape; and here the River Galcgos mention'd above comes in. Then you come to the Cape Eleven Thouland limins, as above, Lat. ${ }^{2} \mathrm{~d} .26 \mathrm{~m}$. the MidChannel or the Fair Way into the Stroight is 14 Ls off the Point, in Lat. $52 \mathrm{~d} . \frac{2}{2} \mathrm{~S}$.

It has been oblerved in our Defeription of this Steresht calIed the Fretum Alagellamewn, thac as it was never likely to be in ufe again, (the Paffige about by Cafe Horme, which was much eaficr, being now ditiover'd) it was therefore needlels to defcribe it ; and we might let it drop our of our Memory as if it had never been in our Knowledge. But it may be alto obferv'd here, that the Scas are fo tempeltuous in the E. and W. fide of the Terra del Fuego, and efpecially thote to the S. of Cape Horne, where our People now rum away into the Lat. of 60 to 63 d. S. and that in particular there come fiech violcme Wares from the S. and S.W. that the beft and ftrongef Ships are in danger of foundering, and that if they cfoape, yet the Men are fo fatigned with the Labour and Warching, and particularly with the Cold which is extremely piercing, that the Empopeans begin to think again of the Streights of Magellan, aud many of the Frenchs Ships tradug to the South Seas, in the late time of Friendhip between lirance and spain, chofe to 30 that way, and gencrally had a quicker baffige ; and that fome Euglijh do fo ftill.

Por this reafon I think it flould not be omited to give a fummary Account of the Streight, as it has becn furveyed at
be dobe at low Water, and not ofitted, left the Bar hound thift and alter between the former Soundings and the time you come there.

The Land behind the Harbour lies in high rifing Hills, ftanding thick together like blunt Sugar-Loaves, being the higheft Land to be feen on all the Coaft. In the Bay you have 12 Fa. black ouzy Sand, oppofite to the Harbour, dift. E.N.E. 2 Ls.
$\lambda^{\prime}$. B. The Tides flow and ebb here 3 Fa. right up and down.
This Port is dift. from the flat Inand near 9 Ls, the Courfe as before S.S.W. N. B. The Entrance into the Harbour lics in Lat. 49 d .10 m . Longit. from the Lizard of d. 10 m . Meridian dift. from the Lizard 1030 Ls; Variation of the Compals 16 d .10 m . Eaft.
The Harbour is fafe, and Ships ride fecur'd from all Winds : alfo the Points reaching our betore one another, keep off the Swell of the Sea, be it ever fo rough in the Offing.

It is a good Harbour for wintering, were it not for want of Fucl and fren Water, yet both may be had with fome difficulty. Sir \%obn Narbrough lay here all the Winter; moored, and unrigg'd his Ship; and tho a very formy Winter at Sca, felt nothing to hurt them, or to put the Ship into any great Motion: Depth of Water 7 to 10 Fa.

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## Sailing Directions for the Streights of Magel Journal, Octobe

BEing come into the Latit. of Cape Virgin Mary, I ftood off about 4 Ls; and having 28 Fa. Water, and the - Wied fipringing up frefla at N.E.I ftood in for the Point, paf-- fing to the northward of two Bauks of Sand which lic due S.E. from the Cape ; fo runnng in between thofe Banks and - the loore 2 Ls from the laft, having $33^{\text {to }} 30 \mathrm{Fa}$ in the Fair - Way.
$\lambda$. $B$. The Cape is in Lat as above, Longit. from the Lizard 65 d. 52 m . Merid. dift. from the Lizard 1662 Ls, Variation of the Compafs 17 d .

- In the Fair Way from the Cape into the Steeight to the firft
- Narrow, is good anchoring in 30 to 36 Fa. not much Tide,
- till you come to the Narrow, where it runs ftronger than the
- Thames does in the Hope below Gracefond.
$N$. $B$. The Tide runs here 6 hours Flood and 6 hours Ebb, and rifes \& Fa. right up and down: The Flood fets in, and the Lbb lets out, and the Full and Change make high Water at 1 a-Clock.
-This Day at a a-Clock I was a-breaft of Point Pofefion, - when finding a decp Bay on the N. fide, and nor knowing the - Fiar Way for the Narrow, 1 run into the Bight, flecring - W. M.W. about a Ls, then W. and W.S.W. and S.W. by S. roun-
fing Hills, ftanding the higheft you have i2 Fa . E. E.N.E. 2 Ls. ht up and down. Ls, the Courfe nto the Harbour Fard oj d. 10 m . Variation of the
from all Winds : cr, kecp off the ffing. not for want of $h$ fome difficulty. moored, and unat Sca, felt no-- great Motion :
 it had never been in our Knowledge. But it may be alfo obferv'd here, that the Seas are to tempelluous in the E. and W. fide of the Terra del Fuego, and efpecially thote to the S. of Cape Horne, where our People now run away into the Lat. of 60 to $63 \mathrm{~d} . \mathrm{S}$. and that in particular there come tich violent Waves from the S. and S.W. that the boft and frongef Ships are in danger of foundering, and that if they cfeape, yet the Men are to fatigued with the Labour and Watching, and particularly with the Cold which is extremely piercung, that the Ëropeans begin to think again of the Stherghts of Magellan, and many of the French Ships trading to the South Sear, in the late time of Friendhip between France and Spain, chofe to go that way, and sencrally had a quicker Pallage ; and that fome Englifh do fo itill.

For this reaton I think it fhould not be omitred to give a fummary Account of the Streight, as it has becn furveyed at the publick Expence by the faid Admiral Sir Yobn Narbroust, by order of K. CbarlesII. which Survey has been publifhed under his own hand, being an Abridgment of the Journal of his paffing thro' the Streight both forward and backward, Ann.1669. as follows.

## -

## hts of Magellan, exyfratied from Sir John Narbro's

 urnal, October 23 , 1670.Mary, I ftood Water, and the the Point, pald which lic duc thole Banks and Fa. in the Fair yit. from the Li rd 1662 Ls, Vaeight to the firft not much Tide, tronger than the
id 6 hours Ebb, ood lets in, and make high Wa-

## Point TPofeffion,

 not knowing the c Bight, ftecring S.W. by S. roun-- ding the Bay as Ifaw the Land lie, keeping my Eyc upon the - N. Shore.
- As I floal'd my Soundings, I had 22,18 , 16,12 to 9 Fa . - fandy gravelly Ground, and fome times Pebble Stoncs. I - rounded the Shore thus becaule we were all unacquainted,
- and we could not fee the Opening of the Narrowi, or where
- it lay, one Land fhutting it in within another.
- About 5 a.Clock we were open with the Narrow, and and had fill a fine Gale ar N.N.E. which had it held would
- have been a leading Gale thro'. Accordingly I run into the
- Chops of it, kecping a S.W. by S. Courfe ; but the Ebb bcing
- made, run fo ftrong our, that I could nor fem it ; and being
- not able to make above a Linto the Paffage, I was forc'd to
- fall back again out of it as well as 1 could.
- Here we were in great danger of tailing afhore upon fome
- ftecp Rocks, which lic on the N. fide of the Entrance; the
- Ship taking a Sheer with the Force of the Tide, and the
- Wind blowing frefh from the N.E. We faw the Rocks by
- the long Rock-weed which grew on them, and tent the Boat
- to found them, who found but $s$ Foot Water upon them,
- tho there was 14 Fa. clofe to them on the off fide next the
: Chanel or Fair $W^{\prime}$ ay : they lie fretching from the N. Point


## Sailing Directions for the Streights

6 of the Narroi' about a mile off into the Channel, and are ' very dangerous.

6 Having efcaped this Danger, and got farther out into the - Channel, about 6 a-Clock the Wind veer'd to the N . and at 8 to - N.W. with much Rain and very dark; when being got out

- of the Palfage, I ftood in for the Bay on the N. fide, where
' we had been before: but being fo very dark that we could
' not fee the Land, and finding 20 Fa. Water, Pebble Stones and
' ouzy Ground, we anchored and rode there all Nighr, at firt
- fark caln, afterwards a little Wind at S.W.
- The next Morning we weighed with the Flood, having
- little Wind N. by E. and enter'd the Firft Narrow the fecond
- time; and having the Tide under Foot, paffed it happily e-
- nough, and with little Difficulty, the Paffage being not a-
- bove ${ }_{4}$ Ls thro': the northermoft Point of the Paffage under
' the N.E. part of which we had anchor'd all Night, and
- where it firit grows narrow, we called Cape Entrance, the
- Pallage about $1 \div \mathrm{L}$ over, from 27 to 30 Fa . all the way
- thro'.

6 It is fomething above 8 Ls from the firf Narrow to the 6 fecond, the Courle W. by S. and E. by N. the Reach between ' is 7 Ls broad N. and S. it thows like the open Sea, when we ' enter it, being not able to fec over it to the Second Narrow,
' till we were half over: Nor did we well know where to look

- for it, but by oblerving the Sct of the Tide, which feemed ' to run right over $W$.
- Being enter'd this open Reach, between the two Narrowis,
' it is to be obierv'd, you have at leaft 25 Fa. all the way in a
- ftrait Courfe W. But if you have a mind to round the Bay,

6 as we did the other, and was done afterwards at our Recurn

- by the Pinnace, you will find from 7 to 8 Fa. clofe under the
- Shore ; all the way, a clear Strand and good anchoring under
' the N.W. Land, in a fimall Bay, which we called Gregory's
- Bay, about 2 mile N.E. from Cape Gregory: There you may
- ride in 8 Fa. fine clean fandy Ground, within half a mile
- from the Shore ; it is a very good Road for any Wind between

6 the N.E. weftward to the S.W.
$\Lambda^{r} . B$. The Winds here are very variable, but gencrally hang wefterly. As we failed thro' the Sicond Narrow from Cape Gregory, 1 founded in the Fair Way, and had 28 to 30 Fa. all the way, the Ground fmall Stones.

- At the Point of the N. Shore, at the Entrance of the Se-- cond Narrow, there lies a white Cliff indifferent high, ihoot-- ing a little out S.E. This we named Cape St. Gregory; it is - without the Bay mentioned above, a little to the S. by E. or ' S.S.E.
- There is alfo a Bay a little within this Point, in the Paffage - of the Second Narrow on the N. Shore; but to that we gave - no Name. The S'econd Narrow is broader than the firft, and - the Palfage not fo long; fo it is the lefs difficult.
- The N. Shore of this Narrow makes in a Bay at the E. - Point, and the Shore is full of white Cliffs all the way ' thro'.
- This Narrow lics thro' W.S.W. and E.N.E. at the W. 6 cnd of it the Land is fteep up in white Cliffs, the S. part - of it rounds away in a Forcland; and the Shore rounds
nd are
ato the lat 8 to yot out where could acs and at firlt
having fecond pily cnot a: under $t$, and $c$, the ce way
to the ctween hen we arrow, to look feemed
arrows, ay in a he Bay, Return ader the g undcr regory's ou may a milc jetween
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and had
the $S_{e}$ , Ihoot$r y$; it is sy E. or

Paflage we gave irft, and
t the E . he way
the $W$.
S. part : rounds
dry on the Ground, the Trees blow'd down as they fup. pos'd by the Storms.

- On this Account we call'd this Freflewater Bag; it is ' 9 Ls to the fouthward of Sweepftakes Foreland: And from
' Elizabeth Ifland to this Bay the grand Channel of the
; Streights turns away due S. holding generally the breadth
' of 6 to SLs ; but at Elizabeth IJland ic is 10 to 12 I.s wid:.
- The S. Shore of the Second Narrow we calld sweperffakes
' Bay, and the W. Point of the Bay on the S. Shore of it is
- calld $S_{\text {wiecpfftakes Foreland. Oppofite to this Foreland N.W }}$
; is a fmall round Inlet, or Gulph, call'd Ouzy Harbaur, as
' above. From the Bay, beyond that to the Foreland, the
- Streight is 13 Ls broad.
' From Freflb-water Bay duc S. lies Port Famine, call'd fo,
' becaule it feems fome Spaniards formerly landed and fettled,
' and were ftarved to death here, no Relicf from Etirope be-
' ing fent to them. The diftance from Fre/h-water Bay hi-
'ther is $\sigma \mathrm{Ls}$ due N and S . You cannot fee the Opering into
- the Port as you come from the northward, till you come lo
- low as to bring Point St. Alut to bcar N.W. from you: For
' the Bay lying up in a little Hook N.W. and the Land on the
' W. fide lying low, the other Shore conceals the Port. Here
- we found Heaps of drift Wood lying on Shore, caft up by
' the WiuterFloods, fo that it look'd like a Carpenter's Yard.
' This Point of St. Amn is rocky on the Shore, but yors
- may run into the Port bold with the Point. Here is likewile
- goodwooding, watcring and filhing. The Men haul'd 500
- large Mullets, or Fith as large and good as a Mullet, on Shore
' at one Haul; allo Suncts of 20 Inches long, with Anchory
' and Skate.
N. B. Port Famine lies in Lat. 53 d. 35 m .
' S. from Cape Famine the Reach gocs on ftill S. about ' 4 Ls farther, and then turns away to the weftward, the - Streight alfo or Channel growing narrower to about 5 I.s.
- Juft at the Turning off of the Channel to the W. the N.
- fide neceffarily makes a Poinr, which running out to the
- S.E. we call'd Cape Froward. This is the fouthermoft
- Land of the main Continent of America, and lies from
-Greenland, and the height of the N. Pole, duc S. or S.W.
' the greateft Continuity of Land in the known World.
- It is very high Land, efpecially on the infide of the Cape:
- The Front is fteep up, confifting of a high Ridge of Cliffs of
- a blackihh-grey Colour. There is a great depth of Water
- near the Shore off of the Cape, in fome places no Ground at
' 150 Fa. within half a Mile of the Shore. The oppofite
- Shore is high and very mountainous, but has more luhabi-
' tants than on the N. fide ; yet the Shore is not fo tife as the
- N. fide: And the othey being a Lee-flore, with wefterly
- Winds, and thofe frequently blowing here, it is worle riding
- there, and more dangerous.
- The Streight here is is not above 3 Ls over, but exceed-- ing deep, no Ground at 250 Fa. in this Channel; and the - depth being fo great, there is bur little Tide, nor any RIP-
- pling to be perceiv'd, but a fair Courtie thro' an open clear
- Channel; nothing wanting but a frefl Gale abaft the Maft.
- It is fill beff for any Ship to kecp ucarelt the N. Shore, for
$\Lambda^{\prime}$. B. The Winds here are very variable, but generally hang wefterly. As we tailed thro the Scond Narrow from Cape Giregory, I founded in the Fair Way, and had 2 S to 30 Fa. all the way, the Ground fimall Stoncs.
- At the Point of the N. Shore, at the Entrance of the Se' cond Narrow, there lies a white Cliff indifferent high, fhoot' ing a little out S.E. This we named Cape St. Gregory; it is
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' of it rounds away in a Forcland; and the Shore rounds
' away S.E. from it, and then it trends away to the fouthward
' in low Land. The N. Shore of this Narrow or Streight
- rounds up to the northward in white Cliffs, and falls into
'Shoals. There gocs in a Harbour, which has 4 Fa. in the
- Channcl at high Water: It is a flat round Harbour within,
- and ouzy: I called this Ouzy Harbour. When youare at
' the W. end of this Narrou' you will fee three Illands come
' open, which hew to be fteep up Cliffs; they lie triangular-
' wife one of another; they are ${ }_{4}$ Ls dift. from the Narrow's
' W.S.W. the fmalleft and eaftermoft Ifle we called St. Bartho-
- lomew's; the biggeft is called Elizabet); the middlemoft
' and fouthermoft is called St. George's, and by fome Pen'guin's $1 / f e$, for indeed there are many Penguins on it. This
- Evening I got up to Elizabetb's IJand and anchor'd in 8 Fa. ' and a half, fine black Sand, two miles off the Illand; the E.
' Point bears S. by E. of me ; fair Weather all Night, the Wind
' at S.by W. Being at an anchor under the Lee of this
- Ifland, we founded the Channel between that and the next
- Ifland bearing S. of it, which we call'd St. Bartholomew's,
' and found it a fair Channel, dece Water, and a Mile broad.
' In the Fuir Way is 38 Fa . and 9 to 10 Fa. near the Shore
- on cither fide of Elizabeth Ifland.
- October ;o. We weigh'd from Elizabetlj's Ifland, and
- ftanding away S. anchored in a little Bay in 11 Fa . gravelly
- Ground, and about half a Mile off the Shore, the Tide not
- fo ftrong as before; and the Flood rifes but ro Foot up and
- down. In this Bay we found both Wood and Water, here
- being large Trees of 18 Inches thro', fomewhar like Beech,
- and two Rivulets of frefh Water; both which, efpecially
- the Wood, had been very fearce with us for a long while.
$N B$. The Woods being thick, they con'd nor travel thro'
them; but they found Wood cuough $\mathrm{l}_{\mathrm{j}}$ ing perilhing and

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$u d$, and gravelly Tide not $t$ up and ter, here e Beech, fpecially while. vel thro' hing and
moc mectlarily makes a Pomi, whinh running ont to the
- S.E. we calld Cape Froward. This is the fouthermolt
- Land of the main Continent of America, and iie; from
- Greenland, and the height of the N. Pole, due S. or S.W. 6 the greateft Continuity of Land in the known World.
' It is very high Land, efpecially on the infide of the Cape:
- The Front is ftecp up, confifting of a high Ridge of Cliffs of

6 a blackifh.grey Colour. There is a grat depth of Water 6 near the Shore off of the Cape, in tome places no Ground at

- 150 Fa . within half a Mile of the Shore. The oppofite - Shore is high and very momatainous, but has more luhabi-- tants than on the N. fide; yee the Shore is not fo life as the - N. fide: And the othey being a Lee-fhore, with wefterly - Winds, and thole frequently blowing here, it is worfe riding - there, and more dangerous.

The Streight here is is not above 3 Ls over, but exceed.

- ing deep, no Ground at 250 Fa . in this Chanuel; and the
- depth being fo great, there is but little Tide, nor any Rip.
- pling to be perceiv'd, but a tair Courfe thro' an open clear
- Channel ; nothing wanting but a frefh Gale abaft the Maft.
- It is ftill beft for any Ship to keep neareft the N. Shore, for
- the fame Realon as before, becaute the Winds hanging gene-
- rally in the weftern Quarter, the N. Coaft is more a Weather
- Shore than the S. Coaft.
N. B. Cape Froward lies in Lat. 53 d. $52 \mathrm{~m} . \mathrm{S}$.
${ }^{6}$ On the $4^{\text {th }}$ of $N_{0}$ vember, the Wind fpringing up frefm at
- W.N.W. and the Reach from Cape Froward lying due W.

6 we were oblig'd to put in towards the N. Coaft, and come

- to an anchor 5 Ls to the W. of Cape Froward in a very - good Bay, which we call'd Wood's Bay.
N. B. This was call'd fo after the Name of one Mr. Wood, who was Sir 'folsn Narbrough's Chief Mate, and very inftrumental in giving this full Account of the Voyage.
- Nov. 5. we weigh'd again, and came a-breaft of Cape
- Holland. Thefe are all Points of Land on the N. Shore of
- this Reach, as is alfo Cape Coventry, Audrews, Cortes, and
- Fortefcue's Bay. Cape Gallant, and Port Gallant: All thele
- lic on the N. Shore, and there is very good anchoring in

6 moft of them, tho there are fome Rocks under Shore upon 6 moft of the N. Coaft from IVood's Bay to Cape Gallant.

- Oppofire to this Coaft lie many Iflands, rather inclining
- to the S. Shore, but a breaft of Cordes Bay, and diftance
- 2 Ls: Thele are, Charles Illand, Monmouth Ifland, Rupert's
- Ifland, St. George's Inland, Arlington's Inand, Sandwich I-

6 fland, Wren's Ifland, with abundance of namelefs Rocks,

- which we did not think worth notice. Moft of thefe lie
- E. and W. ftretching from the S. Shore oppofite to Cape
- Coventry, and then croffing a deep Bay call'd $1{ }^{\prime}$ bante Bay
- (becaule of a great many Whales we faw in the Bay) go ott
- at $I$ blale Point.
- This Whale Point is a Forcland on the S. Shore, where - the Shore runs out $N$. into the great Channel : And this - Palfage makes the Thard Narrow of the Streight.
$N$. $B$. This :s thotght to be the moft difficult part of the Streighr, by reaton of the breadth of the Chanacl and Depth of the Water, and efpecially the Number of Rocks.
6 The Paffage of this Narrow is about a Ls wide. The E.
- Point on the S. Shore is $W$ bale Toint, and the W. Point on
- the fane Shore is call'd Cape Micdleton; and the Reach be-
- fore it we calld Eingh/h Reach, becaufe of to many Einghl/h
- Names given to the itlands and Shores.
- The Streight thews here as if it was a mere Gulph, and
- that there was no farther Paflape to the weltward: For the
*S. Land rounds up fo much to the N. weftward, that it feems
- to fhut up the Land into one ceven Strand. At this dift.nite
- we faw two large Openings into the S. land, one oppofite
' to Charlis Ifland, the other farther W. There we faw many
- Whales playing in the Sca, and therefore call'd it $\mathbb{W}$ )Jales Bu!y. N. B. It was a great Millake not to go in here.
- But to come back to the N. Shore from the Pitch of Cape
- Froziad d, the Channel of the Streight lics nearelt $W$ by N .
- to Cape Holland ditt as above full 5 1.s. From the Pitch of
- Cape Holland to the Pitch of Cape Gallant it liesW. by N.
- a littic northerly, ditt. \& Ls; and from the Pitch of Cape
- Gallant to a low Point which lies to the weftward, it is
- N.W. by W. a little northerly, dift. 3 Ls.
- This Reach is not more than = Miles wide, that is, from
' the N. Shore to the Inands, which we calld, as all together,
' the Rogal Ifes. When we were a-breaft of the weitermoft
' of thern, which is Rupert's I/and, and failing Mid Chan-
- nel, we fhot off a Sakre, and lodg'd the Shot clofe in the
- Intand's fide.
' Oppefite to Rupert's Illand on the N. Shore lics a low
- Poins or Cape, which we call'd Point 'Paflage. We flot patt
- this Point haif a Mile to the weftward into the Narroü, fha-
- ving a fine eafy Gale; but the Wind coming wefterly, with
- cloudy Gufts lometimes at N.W. we run into a little Bay to
- the weftward of the Point, which we call'd Elizabett's Bay.
' Here we rode faft all the Day clofe aboard the Shore, the
- Wind blowing hard.
- The S. Shore right againf E.tizabetl's Bay is mountainous
- and high, with feveral fine Coves like wet Docks, very tafe
' to run a Ship in, to fecure it from Wind or Sea. This Bay we
- call'd Nufcle Bay; and a River which comes into it we
' call'd St. 'Yerom's River. The Shore is rocky and ftecp too,
' no Ground in the Channcl of the Narrow at 100 Fa. alfo in
' Inoft of the Bays on the S. Shore there is very deep Water,
- cfpecially among the Inlands, which lie very thick and clofe
- along the Shore.
- From E!izabetb Bay weftward, the Land of the N. Shore
- next the Sea fide is low and woody: A fmall River comes
- into the Bay on the N. Shore, which we call'd Batchelours
- River, where is good frefh Water, and fufficient depth in the
- Entrance for Shallops and fmall Veffels, but how far in we
- knew not. Before the Mouth of this River, in the Streight,
- is good anchoring in 9 ro 12 Fa. fandy Ground, and a fair
- Birth from the Shore. The Tide runs here but ordinary for
- ftrength, the Flood coning from the weftward, and rifing


## ions for the Streights of Magcllan.

bart of the bannel and r of Rocks. c. The E. V. Point on Reach be. ny E Ing $\mathrm{l} / \mathrm{l} / \mathrm{h}$

Gulph, and 1: For the hat it fecms his diftunce x oppofite c faw many "bater Buy.
ch of Cape ft W by N . he Pitch of es W. by N. ch of Cape tward, it is
at is, from all together, wettermoft Mid Chanclofe in the
lics a low Ve flot paft arroü, haIterly, with ittle Bay to abct J's Bay. Shore, the
ountainous , very fafe his Bay we into it wc d ftecp too, Fa. allo in decp Water, ck and clofe
he N. Shore River comes Batchelours depth in the w far in wo he Stricight, and a fair ordinary for and rifing
this feems to be the moft dangerous part of the whoie Sreights - as wanting both Harbour mader Shore, and Anchoring in the

- Offing. I menn to the caftward of this C.ape © \& ? und.
- On the other Shore however a little farther, there is a fine - Bay, which we call'd Rider's Bay: We did not found it,
- hut it promifes fair, being large and well. fhelterd from any
- Winds. What depth there is we know not, but in the Chan-
- nel before it we h.d no Ground at roo Fa. Fromploint P'alfage
' to this Cape is alfo the moft crooked part of all the Streight,
- which adds to the difliculty of the Paflage, becaule it repures
- fo many Winds to get thro' it : We calld it Crooked Keach.
- A little to the caftward of Cape © enad he two finall Illands, - but of no importance to the Navigation.
W.N.W. from Cape (e) uat, the Streight lying to the N.W. - lies Cape Monday, being on the S. Shore of the Pafface, - and dift. from Ciape equad 1 ; Ls. Oppofire to this Cape the
- Sreight is contracted to about ${ }_{4}$ Miles breadth. The N.
- Shore is full of decp Sounds, broken Iflands, and large Points - ' hooting far into the Sca, both Shores are rocky, high, ' mountainous, unholpitable Countries, neither Wood or ' Grats.
- From Cape Monday the Shores fall off on both fides; and - the Strcight in general grows wider and wider, kecpung one - duc Courte N.W. by W. to Cape Upright, a fteep high Cht ' on the S. Shore. dilt. fromCiape Mlonday about + Ls.
- Here the Chamel inctmes half a l'oint to the weftward, - and you have no more Turnings or Reaches in it ; but is lies ' open W.N.W. half a Point northerly right out into the - Soutb. Sca.
- We found hetele or no Tide or Current here ; that is to - lay it could not be fele becaufe of the great depth of Wa-
- ter : For here, tho the Chamel grows broad to 6,7 and 81.5 ,
' yet we had no Ground at 200 Fa a Musket-hor from the - Shore on cither fide. We fall'd fair along the S Shore a - whole Day ; we could fec many Sonads and Cores run deep - into the Land, alfo feveral tinall llaads, but no vifible - danger; for all the Illands that we came near cnough to - found are ftecp too, to that the Streight is here a very tar - Channel to fial thro', or (as the Spaniards call it) to dutem-- boguc into the Soutbern Ocean.
- We faw hikewilc on the N . Shore feveral Sounds going in; to the Land, and many fimall Illands; bue one Ifland we were ; a-breaft of larger than the reft, which we call'd $W^{\prime}$ 'f/iminfier - Ifland; and there are fome Rocks, and much broken Ground - about it, and feveral llands alfo; which Iflands we call'd the ' Lazuyers. Weflminfler lfland is high and rocky, and makes ' at a diftance like $W$ 'eftminffer-balll, and therefore we call'd ' it Weftminfler Ifland.

Here the Streight is open'd to 5 I.s, thar is, from the Ifland to the S. Shore : But the Ifland is alfo at fome diftance - from the N. Shore, and has many Rocks and Inlands between, - to the whole Streight may be here near 7 L. broad.

- And now we began to fec our way ont, for the Strecight grew wider and wider, and feem'd to promite us that we - Thould find no more narrow Paffages.
- Wind blowing hard.
- The S. Shore right aganft Elizabetl's Bay is mometainous - and high. with teveral tine Coves like wet Docks, very lafe ' to rum a Ship in, to fecure it from Wind or Sea. This Bay we - calldd Mufili Rav; and a River which comes into it we - call'd Si. 'forom's River. The Shore is rocky and fteep too, 6 no Ground in the Channel of the Narrout at 100 Fa. allo iu - molt of the Bays on the S. Shore there is very deep Water. - clpecially among the Inands, which lie very thick and clofe - along the Shore.
- From Elizaldetb Bay weftward, the Land of the N. Shore - next the Sea fide is low and woody : A fmall River comes
- into the Bay on the N. Shore, which we calld Batchelours
- River, where is good frefh Water, and fufficient depth in the
- Entrance for Shallops and fmall Veffels, but how tar in we
- knew not. Before the Mouth of this River, in the S'treagh,
- is good anchoring in 9 ro 12 Fa. fandy Ground, and a fair
- Birth from the Shore. The Tide runs here but ordinary for
- Itrength, the Flood coming from the weftward, and rifing
- not above a Foot.
$\mathcal{N} . B$. The Tide that comes out of St. 'forom's Chauncl makes a Rippling with the Tide that comes along the Stream off the Channel of the Streight, as when Tide and Eddy or two Tides meet.
- We call'd this York Road; 'ris very good Riding with
- welterly Winds, for here cannot go any great Sca, nor can
- a Ship be cmbay'd: But if a Cable gives away, or an Anchor
- comes home, you have the Streight open to lead it away
- one way or other.
- It is evident here, that the wefterly Winds are the chief
- Winds that blow in this Streight; for all the Trees on both
- Shoresitand leaning to the E. as if they gave way to the
' Wefterly Storms ; and the W. fide of the Tops of the Trees
- are blown flat with the Vioience of the continual wefterly
- Storms.
- There may be cafterly Winds too, and fome we had ; but
- they generally blow gently and mild, and bring good
- Weather.
- W. from Elizabeth Bay, and on the N. Shore of the
'Streight lics Cape c) tuad; the Land like the former Points
- Thut in one another, as if there was no farther Paffage : But
' as you make nearer to it, you come fair with the Opernas,
- the Streight alfo rounding there to the northward.
- Cape equad is a ftecp-up Point on the N. Shore of the
- Streight; it has a rocky grcyifh Alpect, and is of a moderate
- height. Before you comeat it it thews like a great Building.
c or an old Caftle; it Points off with a Race to much from the
6 other Hills, and into or towards the Channel of the Strcight,
- that it makes a Clole, and fhuts in as it were upon the S
- Land, making an Elbow in the Streight.
- The grand Streight is not above 4 Miles wide here from
" the Main to Terra del Fuego, the Land mountainous, rocky,
- and ftecp too on both fides, and the Chaunel dece; fo that

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- Iound are flecp too, to that the Sercight is here a very far
- Chanacl to dail thro'. or (as the Spamards call it) to dikem-- boguc into the Southern Ocean.
- We faw lakewife nn the N. Shore feveral Sounds going in-- to the Land, and many fimall Illands; but one Mlandive were - a-brcaft of larger than the reft. which we callid ${ }^{\prime}$ 'sfominfie's

6 I/land; and there are fome Rocks, and much broken (ground

- about it, and feveral llands alfo; which Iflands we callid the
- Lä̈ycrs. IV eftmunfler Iflend is high and rocky, and makes

6 at a diftance like /feftminfler-ball, and theretore we calld - it 1 'eftomuffer Ifland.
-Here the Streight is open'd to g I.s, wat is, from the - Ifland to the S. Shore : But the Mand is alfo at tome diftance

- from the N. Shore, and has many Rocks and llands between,
- to the whole Streight may be here near 7 lis broad.
- And now we began to lec our way out, for the Srrcight grew wider and wider, and fecm'd to promite us that we - Ghould find no more narrow Paflages.
- From Cape Mouduy the Channel lics away W.N.W. half a
- Point northerly, and E.S.E. halt a Point foutherly, to Cofte
- Defleado, dift from one another 15 Ls; which finiflacs the
- Strcight, and opens into the Occan.
- From Cape cuad into the South. Sea the Courfe of the
- Strcight lics N.W. by W. and from Cape ceuad to Cippe
- Defleado the dift. is 28 Ls: It lics all in one frait Line, which
- therctore we call'd Long Reach, and the Land on the S.
- Shore we call'd South $\mathcal{T}$ ifolation, in Oppofition to the Coaft
- of Grernland, which Sir Martin Forbifler for the fanc Rea-
- fon of Waldnefs and Barrennels calld North TM fuldation.
- Cape Difleado lics in Lat. $5 ;$ d. 10 m . S. and Cidpe' Pillar - lies in 5 jd. 5 m .
- Thus we nade the whole Iength of the Sucights to be - 116 Ls trom C'ape l'irgins to Cape De lleado, reckoning all
- the Turnings and Reaches: A nd thus we happily lail'd thro'
- it in 16 Days.'

Thus far Sir Fobn Narbrough's Account, and allo the Additions from Licutenant Wood and others, correlpondng with his Account : All which may lerve for a lull Chart of the Strcights thendelves, in cale any Pertons thould, cither by Choice or Neceflity be oblig'd to take this Paflage tor the South. Seas in time to come, which it feems is more probable than for many Years we thought it to be.

Sir \%obn Narbrough did, and feveral other skiltul Navightors fince that, have come back by the fame Streight from the South. Seas into Europe ; and fome Directions might be drawn from the Continuation of his Journal in his Recurn : But we think that what has been extracted from his Diary outward-bound may be fufficient.

We mult now go back, and with the modern Navigators look into what Authors have left upon Record for Directions in tiang

# Sailing Directions for the Streig 

the other Conte, wiz. by the Streights de la Maire, and the Tirra dil liucgo; a Courlc, which tho it is not without its Dangers, has of late obtain'd in the World, and been eftcem'd for tome time the beft and eafieft, tho we cannot fay it is the difeft Palfage iuto the South-Sea.

We have three particular Journals of this Paffage left in print by the Perfons who have fuccefsfully pafid it, and of three different Nations: And as they are all very important, being well detenb'd, as they were skilfully perform'd, and are not tedious, we think it may he ufeful to give an Extract of themall, the thing it felf being of fo great importance in Navigation.

1. "Facob li Mairc, a Dutch Man, who was the firft that crer made that Attempr, and perform'd it fuccefstully.
2. Mond. Frezicr, a French Man, and Engincer to the Frowl/ King, whofe Account was publifh'd in France by the King's Authority, and tranflated into Englifh, with an Appesdix or Poftfcript by Dr. Halley.
3. The two Captains Rogers and Cook. Euglifh Men, who took the Acaprelco Ship; and each publifh'd a Journal of their Voyage, and in that Account gave a particular Defcription of this part round by Cape Horue.

Thus we have the Authority of the Navigators of three Nations for the Paffage.
N.B. Facob le Maire fet out with two Ships from the Texel the 14 th of 1 inne 1615 , and to omit the reft of the Voyage, as not to our purpole here, they arrived at Port 'Toffre in Lat. 47 d. 40 Ni . S. on Dec. 7. the fame Year, where they ftard about five Wecks; but did not winter here, as Sir Fobn Narboroitgh did.
The gth one of the Ships having been caft on Shore upon the Rocks, and almoft miraculoully efcaping, they went into the Port, and up the River, to the Ifland mention'd by Sir 'fohn Narborough, call'd King's Iland, in order co get Provifions and freth Water: Of the firlt they found nothing but Eggs and Penguins; and for frefh Water, they found nonc.
As for the reft of the Voyage, containing a Defcription of the Ccaft, and Directions for failing on it, I thall give it in their own Words.

Yall.13.1616. ' $\mathbf{V}^{\mathrm{E}}$ E fail'd out of Port Defire; but be' ing calm, we anchored betore the

- Bay till the Evening, when with a fair Wind we fet fail again
- to the fouthward.
- The 18th we faw Schaid's Iflatids bearing S.E. from us, ' about 3 Is: We found them lying, as Schald de Weri who - difcorer'd them, deferibes them, wiz. diftant from the Streight
- of Mugellan about 5 Ls E.N.E. and W.S.W. When we got
- Sight of them, we were in Lat. sid. S.
A. B. Thele are fuppos'd to be the fane which we call İalkland's Ifler, and Sibauld's Illes.
- The zoth we faw Stect-Girafs drive in the Sca (that is, - What we call Rock $W_{\text {eced }}$ ) and perceived a great Current run-
' ning from the S.W. We were then in Lat. 53 d . and fup-
- pofed by our Reckoning we were about 20 LS S. of the En-
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## as for the Streights of le Maire.

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Tage left in dit , and of y important, n'd, and are in Extract of ance in Na -
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Men, who irnal of their efcription of
of three Na -
on the Texel : reft of the y arrived at 7. the fame but did not

Shore upon 5, they went ad mention'd , in order to they found Water, they
efcription of rall give it in

Gire ; but bced betore the fet fail again
;.E. from us, le Weri who n the Streight When we got
hich we call
Sca (that is, : Current rund. and fiepS. of the En-
' in our Opinion, becaufe we found a ftrong Corrent in the ' Opening between, coming from the fouthward.
' About Noon we had an Obfervation, and found we were - under Lat. $54^{\text {d. }} 4^{6} \mathrm{~mm}$. In the Afternoon the Wind coming - $N$. we ftood in fair with the Opening, relolved to fee if it
' went thro', or that wewere embay'd : Being enter'd, it fell
6 calm, when we found a ftrong Curcent of the Tide runnins - right in, and that we drove forward all nighe at a great rate.

- In the Opening we faw endilds Flights of Penguins, and
' thoufands of Whales; fo that we were forced to wind and
' tack, and ftand this way and that, to aroid them, left our
- Ship thould run foul of them.
- The 25 th in the Morning we were clofe in with the $E$
' Coaft of the Land, which we had lien the Day before, which
' was very high and craggy, and reach'd E.S E. as far as we
' could fee : This we named Staten Land, or the States Laill': - towards night it lay from us $N$. to that we feem'd to be run - paft it S. But en the W. fide the Land continued, and lay - W. by S. from us, and this we named Mitatrice Lend. We ' perceived good Bays and deep. Somds on both fides as we - pals'd, wich fine tandy Strands, and as we had reaton to be-
- lieve good anchoring ground.
- All this firt part ot our Entring we hadrene Wind at N. and 6 went away S.S.W. with a fliff Courte and a freth Galc. At
' Noon we were in Lat. 55 d .36 m . Whereupon we held cur ( Courfe as before S.W. having a hard Gale.
- Keeping this Courfe, we perceived the Land on the S. fide of the Paltage, being the W. end of Matrice's Land, trend ' off alfo, falling away W.S.W. and S.W. as far as we coudd ' make it from our Round-Tops, all very high craggy Land.

6 In the Evening we had the Wind S.W. and all that N.ght
6 we ftood S.S.E. having a great Sca out of the S.W. gorae ve-
' ry high, and the Water looking blue; whence we concluded
6 we hadagreat Extent of Water, and very decp to the Lec-
6 ward from us; nor did we doubt but it was the grear $S_{n}$ nt $t$ )

- Occan that was then betore us, which made us excecding
- joyful, believing we thould difoover the Way into it which
- was never heard of bcfore, elpecially not this Way.
'The 26th we had another Oblervation, and found our
' felves in Lat. 57 d. with a flying Storm out of the W. and
- S.W. with blue Water and very great Billows. All that Day
- we held our Courle fouthward, and law very high land to
- the N.W. In the Night we tack'd, and changing our Courle
- ftood to the N.W.
' The 27th, having run this Courfe all P'ight, we found
- we were in Lat. 56 d . 51 m . The Weather was now ex-

6 cceding cold, with Hail and Rain, the Wind W. and W. by N.

- So we went S. again: Then having made a long ftretci iu* - tack'd, and ftood NW. again under nur Courles.
- The asth we carricd our Top fails, but had a grat hollow - Sca out of the W. with firft a W. Wind, then a N.E. and - with that we held our Courte S. as before, then W. and - then W. by S. being in Lat. 56 d .4 .5 m . Lo that for thele fo-- veral Days we made but little way fouthward, but gain'd up-- on our Longitude, by wefting as above.
- The zoth we had the Wind at N.E. which was a great he'ri
notmigoutrygs amo remguns, anofor freminater, they found none.
As for the relt of the Voyage, containing a Defcription of the Coaft, ard Directions for failing on it, 1 fhall give it in their own Words

Yall.13.1616. : WVE liil'd out of Port Defire; but be' ing calm, we anchored before the

- Bay till the Evening, when with a fair Wind we fet fail again
- to the fourhward.
- The isth we faw Sclaid's Iflands bearing S.E. from us,
- about 3 L.s: We found them lying, as Scijald de IVert who
- difooverd them, deleribes them, riz. diftant from the Streight
- of Magellaiz about 5 Ls E.N.E. and W.S.W. When we got
- Sight of them, we were in Lat. 5 I d. S.
$N$. $B$. Thete are fuppos'd to be the time which we call Fidthland's ifler, and Sibanid's Ifles.
- The zoth we Gav Sicen-Grafs drive in the Sea (that is, 6 what we call Rock Wied ) and percciv'd a great Current run-
' ning from the S.W. We were then in Lat. 53 d. and fup-
' poted by our Reckoning we were about 20 Ls S. of the En-
- trance into the Strcights of Magellan.
- The $z_{1}$ ft we made no way S. being driven to the E. $t$ - found by an Oblervation that we were ftill in Lat. 53 d . S.
- The $2_{3}{ }^{d}$ din the Morning we had the Wind at S. about

Noon a Calm, (which we were rarcly troubled with) to-
' wards Night the Wind fprung up at W. and we made fail

- ftanding SSE "r had Ground at 50 Fa. black Sand, with
- fimall Stoncs.
N.B. Sir Yobu N'arborough obferves exactly the fame at the fame depth upon all the Coait.
- The jainc Day about three, the Wind came to the $\mathbf{N}$. fair
- Weather and a tmooth Sea; and we made frefh way to the
- fouthward and S. by W.
$\Lambda^{\prime}$. $B$. 'The Water appear'd white, as if it had been in a River.
- Abour three or four inthe Afternoon we faw Land bearing

6 W. and W.S.W. from us; and foon after faw it again duc S. from

- us: Upon which having the Wind at $N$. we went away large
' E.S.E. fuppefing we oughe to get about to the fouthward of
- it. But it blew to hard mad had fuch a hollow Sca, that
- we were oblig'd to tán. a our Top-tails.
- On the arth in the Mentw, ue law Land on our Starboard - fide, as we were ftanding aw.ij S.E. and E.S.E. not above a
' L ofl, the Wind then blowing freth at W. Wc had Ground
" there at 40 Fa, th. Land trending E. by S. very high and
' monntainous, at the Hills coverd with Snow. We kepton
- our Courle with the Land, and about Noon went abou: ir,
- but law other land to the E. of it, which was allo rocky
- and high.
- Thetelands we prosatly underfood to be two different - Mans, teparated from enenher: Alfo it feem as if there - was an open Sound or Paflage between, the Land lying as - We erouls'd abour 8 Ls alinder. We were the better confirm'd
a Defcription of I fhall give it in

Thefire ; but bechored before the d we fet tail again
ing S.E. from us, ald de IVert who $t$ from the Streight V. When we got ne which we call the Sea (that is, great Current runat. 53 d . and fup${ }^{\circ}$ Ls S. of the En-
ven to the E. t in Lat. ${ }^{2} 3$ d. S. Wind at S . about oubled with) toand we made fail black Sand, with
ractly the fame at
ime to the N . fair frefh way to the
it had been in a
faw Land bearing $t$ again due S. from e went away large the fouthward of a hollow Sca, that
d on our Starboard .S.E. not above a We had Ground S. very high and ow. Wc kepton on went abou: it, ch was alfo rocky
, be two different $t$ feem as if there the land lying as ac better confirm'd

Tecan that was then betore us, Which made us excecding 6 joyful, believitig we thould difcover the Way into it which - was never heard of before, elpecially not this Way.
© The 26th we had another Oblervation, and found our - felves in Lat. 57 d . with a nying Storm out of the W, and

- S.W. with bluc Water and very great Billows. All that Day
- we held our Courfe fouthward, and faw very high Iand to
- the N.W. In the Night we tack'd, and changing our Courle
- ftood to the N.W.
'The 27th, having iun this Counfe all Nigit, we found ${ }^{6}$ we were in Lat. 56 d .51 m . The Weather was now ex-- ceeding cold, with Hail and Rain, the Wind W. and W. by N.
- So we went S. again: Then having made a long ftretch ife - tack'd, and ftood N W. again under nur Courfes.
"The asth we carried our Top fails, but had a great hollow - Sea out of the W. with firft a W. Wind, then a N.E. and - with that we held our Courfe S. as before, then W. and - then W. by S. being in Lat. 56 d .4 .8 m . fo that for thele fe-- veral Days we made but little way touthward, but gain'd up-- on our Longitude, by wefting as above.
- The 29 th we had the Wind at N.E. whic'1 was a great he'p ' to us; for holding our Courfe S.W. We gain'd both on our
- fouthings and weftings; but that Day we faw two Iflands lying
' as it were in our way S.W. from us. About Noon we got to
- them, but could not go about them, fo that we were oblig'd
- to ftand N. again, and fo went above between them and the
- Main: They were large Iflands, had dry grey Cliffs on the
- E. fide, and lower Cliffs on the N. fide, and lie in Lat. 57 d .

6 S. We call'd them Barnevelt's Iflands : and having open'd
6 the Paffage between them and the main Land, we ftecr'd

- W.N.W. About Evening we faw the main Land again,
' bearing N.W. and N.N.W. from us; which Land was the
- fame we had feen ftretching S. and S. by E. from the Streights
' of Magellan, and which now ftretch'd away S. by W. and
6 S.S.W. Ir was all hilly and very high, cover'd over with Snow,
6 and, as we percciv'd the next Day, ended in a tharp Poiat
- ftretching out into the Sca full S. This we call'd Cape'Horin,
' lying in Lat. 57 d. 48 m .
- Then we had fair Weather and a N. Wind, but found a - frightful Sca and vaft Billows, the like hardly ever feen,
' out of the W. We held on our Courfe W. by S. and foumd
* aftrong Current running within from the N E.
'The zoth we had ftill great Billows out of the W and 2
' hollow Sca, aftrong Current fill rmming to the wetwa: 1 ,
6 which to be fure made thefe Billows the greater. This all
6 concurred to fatisfy us that we had certainly an open way
- upon that Courle into the great South-Ser. We were then in
- Lat. 57 d .34 m .
- The 3 ift we had the Wind at $N$. when lailing W. and IV. - by S. as before, we came into Lat. 58 d . the Wimd often
- veering, and proving variable between the $W$. and $S \mathrm{~W}$ ln
- this Courte we intenfibly doubled Cape Yorme; ateer which
- we faw no more Land in thele Seas; bur had fill very great
- Scas with blue Water out of the W. All which farther al*T:
- fined
－fured us that we had the broad South－Scat Ocear right before
－us．The Winds were very variable，with Storms from
－almoft every Corncr，but chicfly W．and S．W．with Hail and
－Rain great flore，and very cold．
－The it of February，tho the height of their Summer， －and equal to our Augu／t，we had extreme cold Weather，
6 with a Storm our of the S．W．Upon which we l．ay under our
＇main Courfes，ftecring N W．and W．N．W．with a terrible Sca．
－The ad the Wind came W．and blew ftill very hard；and
－we flood away large 5 ．into 57 d .58 m ．
－The $3^{\text {d }}$ bolding the fame Courte，we found ourfelves in － 59 d .25 m ．which was the moft fouthern Lat．we were in －during the whole Voyage．
N．$r^{3}$ ．Moft if not all the Ships that have gone this way flace have not been able to keep fo well to the north－ ward，but have been driven into 60， 61 ，and 62 d．S．Lat． before they could get their Weftings far cnough，to ven－ ture ftanding N ．and N．W．again．
－The id in the Evening，the Wind veerd to the fouthward －of the W．and then we ftecr＇d N．N．W．lyin，car the Wind －as we could，the Sea going very high．We ocels＇d we had
－been in $59 \frac{\mathrm{~d}}{} \mathrm{~S}$ ．but not by Obfervation ：However，fee－
＇ing no Land in that Latitude to the S．and finding the Winds
－continuedS．W．by S．or thercabout，we ftood fair N．N．W．ail
－Night；and the next Day we found our felves in Lat． 56 d ． ${ }^{6}+3 \mathrm{~m}$ ．the Winds variable，but chictly at S．W．
－The gth we found a ftrong Current out of the W．the Sea －went very hollow，and we had a had Gale，fo that we could －carry no Sail，but drove afore it，（the Wind being S．W．）to
－the northward；kecping her Head as near it as we durf，ly－
－ing thus a Hull two Days and Nights．
－The sth the Wind came to the S．and we flood W．but the
－Wind coming to the N．W．We were driven to the fouthward
＇acain into 59 d．fomething lefs，the Wind blowing hard at
، N．M．and W．N．W．While it blew hard at N．W．we lay
－cloie to it with our Courles out，and kept our Courfe W．
－The 1 th the Wind veerd S．S．W．and blew a frefl Gale，
＇when believing we had rua full enough to the weftward，we
－flcerd boidly N not doubting but we were now for fome
－time farly entredthe South．Seas．Holding which Courfe till
－the 12 th，we then found our felves in the Lat． 54 d .15 m ．


## An Evitrat of Sailing Directions for paffing Cape Horn on the Terra del Fuego，into th Monfieur Frezier，Engineer to the French

## ireitions for the Streights of le Maire.

au right before Storms from with Hail and
their Summer, cold W cather, chay under our a a terrible Sca. ery hard; and
id ourfelves in ar. we were in
gone this way to the northnd $6=$ d. S. L.at. nough, to va-
o the fouthward car the Wind :cls'd we had However, fec. ding the Winds fair N.N.W. all cs in Lat. 56 d . $\checkmark$.
the W. the Sea o that we could being S.W.) to as we durft, ly-
tood W. but the the fouthward lowing hard at t N.W. we lay Courfe W. :w a frchl Gale, e weftward, we now for fome hich Courfe till at. 54 d . 15 m . gave cvery one
' three Cups of Wine to chear them up; for we then found - the Streights of Magcllan lay duc E. trom us.

The lame Day, by Advice of our Council, and at the De-- mand of our chicf Merchant 'Yacob le Maire, the new Pat:
' lage we had now difcover'd, and by which we had to happily - got thro' iuto the great South. Sea, was named the Strighots c of le Alaire: Tho by righe it fhould have been calld - H'illiam Schoutcn's strcight, after our Mafter's Name, by ' whote great Judgment and Skill in tailing all was chicfly - dircetcd.

Thus far le Maire's \%urnat., which is the moft particular, and was the moft ficcectstally pertorm'd of any that have gone that Way fince, and pertorm'd $m 25$ Days.
N. $B$. This Journal mentions in exprets Words the great Difficulty and Extremity they went thro in performing it, much more than Sir '\%o'su Narborough found in twice palfing the Streights of Magellan, which he perform'd alto in 16 Days.

- For the molt part, lays Schonteln, we had a frong - Current, hollow Water, continual Mufts, Rain, moit ' thack Weather, with mach Storm, Hail, and Snow; - whereby we endured much Trouble and Mifery.

The next Journal of this kind is the Frencls Account given by Mond. Frezur, fent by the exprets Direction of the hug of France, Lewers XIV. (as Sir \%obn Narborough was fant to the Streights of Maycllan) to make a more full Dificovery than had been made before.

As the former Account of le Mate was neceffary to thew the happy fteps taken by the firft Difcoverer, and to cncourage others in new Attempts of that kind; to this is in a more particular manner fuitable to our prefent Purpofe, as the Author. from a moft correct and exact Obfervation, has detefted all the former Accounts cither of Fraud or Ignorance in all their Charts; mifplacing the Latitudes, Bearings and Diftunces of almoft all the Capes and Shores upon the Coafts, and in giving wrong Directions for Working thro and by almoft cvery Place; and has given more perfect Directions than any orher for the paffing thofe dificult Coafts and dangerous Scas about the Tor, del Fiug go and Ciape Horne.
ns for pafluy by the Streights de la Maire, and aboust Fuego, into the South-Seas; taken from the French of to the French King Lewis XIV.
h of $\mathrm{May}_{17 \mathrm{~F}} \mathrm{I}$, thought it prowere near upon we chould range ood realon, for

[^9] - when believing we had run full enough to the weftward, we - ftecr'd boldly N. not doubting but we were now for fome - time fairly entred the Soutb. Seas. Holding which Courle till - the 12 th, we then found our felves in the Lat. 54 d .15 m . ! Whercupon we call'd all our Men up, and gave cvery one

## An Extract of Sailing Directions for pafing Cape Horn on the Terra del Fuego, into $t$ Monfieur Frezier, Engineer to the French



H E Night between the 5 th and 6th of May 1712 , knowing our felves to be far S. we thought it proper to lay by, left, as we luppofed we we re near upon the Coaft of the Terra del Fuego, we fhould range

- too near the Land; and we found we had good realon, for
- in the Morning the Sca appeared very much changed in co-- lour ; and the next Evening we difcover'd Land lying low,
c and bearing W.S.W. from us, dift. 9 to 10 Ls. It made at
- firt in 5 or ö Hillocks like little Illands: we took it for Capi
- Virsins, the E. Point of the N. Shore of the Strcights of

6 Maseilan; and chis we did on the Credit of the Charts and
6 Journals, all which place it in Lat. 52 d .30 m . but our

- pretent Oblervation alecrd much from that Situation ; fo we
' concluded it was the Cape Spirito Sancto, on the Terra del
- Ificro, which we afterwards found it to be. We heav'd the
- Lcad, and found $j_{6} \mathrm{Fa}$. with black Sand mixt with lmall black
- Stones.
' The next Morning, the -th, we diftinetly faw the Coaft
- of Terra del Ftecso, and coafied it S.E. in an Offing of + to
- ; Ls ; 'tis indiffercnt high, rocky, and in Precipices along
- the Shore, With fome Tuits of Trees, not many : the Land - appeard double, and over the firlt Coaft the Mountains be-- hud ware all cover'd with Snow.

6 $\because$ ''c bearing of that Part of the Coaft may be afcertain'd 6 to N.W. by N. and S.E. by S. with relpect to the whole Globe. - mealaring it from the Streights of Magellan to that of Le
' Marc, and correcting it a half Rhumb, or 23 deg. for the ' Variation N. E.
'Having thus coafted the Terra del Fuego within 5 to 6 Ls - of the Streighe of Le Matre, we lay by during the reft of the

- Night, at a dift. of about 4 Ls to Sca, in order to enter the
- Stacisht the next Morning ; here we had 40 Fa. large clean
' Sand, as is ufual in Roads.
- All the Night we had heavy Blafts at S.W. by Squals and
- (iufts, which brought the Snow or Slect from the Moun-
' tains up the Country: yet we fell off but litele, which we
- wook for a Sign that the Current was not violent, or that it - fet to Windivard; which alfo is not likely, by reafon of the - oppofite bearing of the Coaft.
cw alrein Gate, e weftward, we now for fome which Courfe till Lat. 54 d .15 m . gave cvery one
mont all the Capes and Shores upon the Coafts, and in giving Wrong Dircctions for Working thro' and by almoft cvery Place; and has given more perfect Directions than any orher for the palling thofe difficult Coafts and dangerous Scas about the 'Firiz del lituso and C'a's' Horme.
ms for pafling by the Streights de la Maire, aidd about Fuego, into the South-Seas ; takeil from the French of to the French King Lewis XIV.
h of $\mathrm{May}_{1712}$, thought ir pro: we re nasrupon we fhould range zood realon, for changed in coLand Iying low, Ls. It made at took is for Cape the Streights of the Charts and 30 m . but our ituation; fo we on the Terra del Wc heav'd the with fmall black
ly faw the Coaft n Offing of + to Presipices along tany : the Land c Mountains be-
y be afcertain'd he whole Globe, an to that of $L c$ 23 deg. for the
within 5 to 6 Ls g the reft of the rder to enter the Fa. large clean
- by Squals and from the Mountrte, which we olent, or that is by reafon of the
'Sunday the 8th, we put in boldly for the Streight Le Maire The Entrance is known by three uniform Hills, which we - called the Threc Brothers. Lying in a Line near one mother, - and over them a high Mountan within Land cover'd with ؛ Snow.
- E. from thofe Hills at the dift. of little more than a L lies ' Cape St. Vincent; and a little farther E. from thar, another ' Cape called St. 'James: tho I have reaton to belicye this firt - Cape is really Cape St. Fames, and that Cape St. Vincerut - lies much more to the $\mathbf{N}$. which I take from an anticut $S_{p-}$ -- nifh Manufcript Chart, made, as I believe, by more anticne - Difcoverers.
- Standing N.N.W. and N. from thefc low Capes, as we ad-- vanced, we plainly difoover'd the Streisht of Le Maire, o-- pening by little and little ; till at length being 'of a L E. from - the firft Cape, all the opening appear'd, which betore was
- Shut in with the oppofite Land, called, as by Schouten's Ac-
- count, Staten Land. This remark is neceflary, to dircet you
' to make fure of the Streight, when you are in the Fair Way
- of it : Many skilful Mariners have been muftaken here, and
- that vcry lately, particularly the Captains of the Concord and
- the Incarnation, two able French Commanders, who think-
- ing to have gotten their Paffage here, found themitlves al-
- ready to the caftward of Staten Land, and were obliged to
- go without all, only fecing this Coaft at a grear dift. W. from
- them, and being deceived by other threc Hills like the Tris Fieves, which are on the Terva dil Fincgo.
- As foon as we were to the caftward of Cape St. Vincent,
- we found a rapid Tide hke a Torrent; which made our Ship;
- heave, and fer to violently, that the Sprit/iul-Top/ail pitch'd
- often into the Water : but having fome notice of this, and
' obferving the Courfe of the Tides, which is 6 hours or $c$ and
'a half, we had fo taken our time, that it might favour us,
- and ranged along the Shore within a L and a quarter at molt.
- By this means we juft enterd the Streught with the Hood.
- which runs as rapidly to the fouthwand as the Ebb had done
- to the northward; and chis carry'd us quite thro' the stre's,'t.
$N . B$. The Flood here divides it felf into two Chamele; one fets aloug the Streiglt, which is bus 6 to 7 L.s wide,


## Sailing Directions for the Streights of le

(Le Maire faid 8 Ls) and the other lets along the out Coalt of Soate" Lalld, running to the caftward.

- About the middle of the Streight on the Starboard-fide - is l'ort Alatrice, a linall Creck about half a $L$ wide at the - Fintrance, at the bottom of which there is a little River of 'sood freth Watcr ; alfo you may have Wood very caly and - plentiful.

More to the fouthward about $\div$ of a $L$ is a Bay about : - of a mile wide, but goes farther in; fome call this Port - Good Succifr. and others Valentine's Bay. Herc allo is - Wood and Water to be had, and good light Timber to make

- Topmafts of. The Port is good; a Frencls Captain named
- Brunet, in a Ship called the ©ucern of Spain, pat in here No-
- تmber the 12 th 1712 . and anchor'd in the Mouth of the
- Bay in so Fa. ouzy Ground, letting us know that other
- Ships may do to after him, as Wind and Weather may permit: He water'd there alfo in a little River on the Starboard-
- ride of the Bay; the Water at firft look'd fomewhat reddith,
- but foon became clean and good: they alfo wooded there,
- and found Trees fit to make Topmafts.
- About Noon, being a little to the caftward of Vale'l-
- time's Bay, the Tide curn'd, and run fo ftrong, that we
- could not ftem it : here we had a lifif Gale of Wind at S.W.
- which afterwards increafed, and blew very high, with fuch
- dreadtal Squalls and Gults, that they brought the Ship's Gun-
- wale too, under our two Courles recf'd.
- However it was requifite to carry more Sail, feeing we
' ftood over S.E. by S. to go about C'ape St. Bartholomew',
' Which is the fouthermolt Point of the Coaft of Staten Land.
- Here we ftood S.S.E. by the Compals, and yet our truc Courfe
- was learce E. by S. the Violence of the Ebb carrying us a-

6 way: The Ebb tets all along the S. fide of Staten Land,

- and lo comes round that way into the Streight of Le Maire.

At lengeth we paft the Cape, and at the Clofe of the Night

- it bote N.W. from us about $=$ Ls dift. but the Weather being
- tempettuous, we were oblig'd to lie by under our Main-fail
- back'd and rect'd, being in great fear of our Lives, knowing
- we were to theWindward ot the Land, and fo near it, that the
- moft undaunted among us were made fenfible of this Extre-
- mity. In a word, we expected every Moment to run afhore
- in the darkelt Night and the dreadfulleft Weather imaginable,
- where there would be no room to help our felves. The
- Charts threatned certain Shipwreck, and we knew no other
- Rule; and as we lay by, we mult have fallen off E. and by
- S. relpecting the Globe; which if we had done, and tinings
- had lain as they were deferibed, we muft all have been ine-
- vitably loft ; but thank Heaven, the Charts were all mifta-
- ken, and Stati'n Land on the S. fide does not bear E.S.E.
- and W.N.W. as they lay it down, but lics E. and W. in re-
- fject to the Globe, and inclines a little to the N. near Cape
- St. Bartisomues ; and that was juft where we happen'd to
- be, and where we oblerv'd it a litrle before Night.
- It mighe be objected here, that the lame Current which - carry'd us thus fiercely along the Coaft of Staten Land,
; 8 in. for fear
- but as I conce it, I propos'd,
- the N.W. in or
- W. fide of the

But juft as
fprung up N.W

- broughe fuch
- bliged to ftrike
- Mizen-yard a
- put right afore
N. B. Here
the Misfortu and luch Te fo many day where, as $h$ and the hou for ucar a 1 by Shocks Horror of $t$ there was $n$
- plealed to cndure the moft extreme Cohd, which tr neceffirily
- brought with it, and the toffing of a dreadtill Sca, becaule
- it ftill carry'd us on our Courfe, which was to the N.W. but
- even that Comfort lafted not long. for the Wud came abont
- again to the S.S.W. and blew to furioully, that we could
- icarce carry our two Courles rect'd.

May the ${ }_{1} 4^{\text {th }}$, we were in 58 d .5 m . the Wind blowing

- hard at N. we flood away W.S.W. when we loft fight of ont
- Confort, and faw her no more, till we came to La Concep-
- tion on the Coaft of Chill.
- On the 17 th the Wind veer'd again to the S.W. and we - found it neceffary to alter our Courle allo, not daring to ftand - to the northward for fear of falling in with Barnerelt IJands;
' lo we ftecr'd S.E. by S. Some Manulitipt Charts we had, - place thofe Illands in Lat. 97 d. whereas the common Opini-- on places them in $96 \mathrm{~d} .3^{\circ} \mathrm{m}$. However, as we were then
- in 57 d .30 m . and the toy or Mift wery thick, had we been
- upon or near them, die Wind blowing to very hard, and the
- Sca going to high, we fhould not have beenable to weather
' them.
- On the 1 sth early, the Wind came about more foutherly, - and deliver'd us from the Apprehenfions of running aflore :
- fo we bore away N.W. the Wind blowing exceffive hard, and
- the Sca running Mountains high ; and to add to our Hard-
- fhips, the Weather was fo extremely cold, that our Men
- could hardly bear to ftand upon the Decks.

6 This held us for three whole Days and Nights, the Wind - often varying, but never abating. The + th day, (the 22d)

- it came to the N.W. and the Air was milder; the Mift drove
- away to the S. caftward, and it clear'd up a little: but ftill
' we had a grown hollow Sea, and we lay by tome hours with
- our Courles rect'd. The 25 th we did the like; and the 26 th
- we hadit quite calin, which was a great Rarity in thefe Seas.
- We had now hung a great while lingring in the Lat. of 59 do

- but as I conccived Hopes we were 9 d. to the weftward of
- it, I propos'd, and it was rcfolv'd at all hazards to thand to
- the N.W. in order to ftretch into the South. Seas, along the
- W. fide of the Terra del Fuego.
- But juft as we were preparing for this Courfe, the Wind - fprung up N.W. and W.N.W. and blew with fuch Fury, and
- broughe fuch a dreadtul Sea along with it, that we were on - bliged to ftrike all our Yards and Top-malts, and cvea our
- Mizen-yard and Mizen Top-malt to the very utmoft, and put right afore the Wind for our Lives.
N. B. Here the Author breaks out in an Exclametion ar the Misfortune of being expofed to luch a dilinal Voyage, and fuch Terrors and Hardilhips as he had been under tor fo many days, in pafing this dreadful part of the World; where, as he fays, befides the Reflection on Dangers pat, where, as heurly Dread of what was to come, he had been for near a Month without Intermiffion in fuch Agitations by Shocks and violent Rollings of the Ship; and by the Horror of the Waves, which fivell'd Mountain high, that there was no flanding, fitting or lying, without gralping
- tempelluous, we were oblig'd to lie by under our Main-fail
- back'd and reet'd, being ingreat fear of our Lives, knowing - we were to theWindward of the Land, and fo near it, that the - molt und.unted among us were made fenfible of this Extre-
- mity. In a word, we expected every Moment to run alhore
- in the darkelt Night and the dreadfulleft Weather imaginable,
- where there would be no room to help our felves. The
- Charts threatned certain Shipwreck, and we knew no other
- Rule; and as we lay by, we mult have fallen off E. and by
- S. refjecting the Globe; which if we had done, and things
- had lain as they were delcribed, we muft all have been ine-
- vitably loft ; but thank Heaven, the Charts were all mifta-
- ken, and Station Land on the S. fide docs not bear E.S.E.
- and W.N.W. as they lay it down, but lics E. and W. in re-
- fuect to the Globe, and inclines a little to the N. near Ciape
'St. B.artholomete ; and that was juft where we happen'd to
- be, and where we oblerv'd it a little before Night.

It might be objected here, that the fane Current which - carryd us thus fiercely along the Coaft of Staten Land,

6 meghe prevent our driving fo much to the N.E. as we fhould

- otherwife have done, and as we fear'd we fhould, becaufe it
- mut have run as the Coaft lies, and to lave kept usat the fame
- ditance. But other Ships have oblerv'd the Pofition as well
- as we, and found the Difference: Befides that, 'tis evident
- that we drove very mich to the E. which could not have
- been if the Coaft had lain as the Charts deferibe; for about
- bune in the Morning the Weather clear'd up a litele, yet we
- tain no more Land that way, tho by the Charts we could not
- have becn above $=$ Ls S. or S.E. from it at mott, efpecially if
' the Land on that fide extends full $\mathrm{r}_{3}$ to 14 Ls S. from the
' Entrance of the Stretght, as all who have coafted it affure
- us, and as we have realon to believe.
- While we were rejoicing for having efcaped this imminent
- Danger, we were made uncafy for our Contort the Mary,
- wheh we had left in the dark to Leeward of us; but we fpy'd her gain in the Morning, lafe, having fallen off with us a-
- bout a L from the Coaft. Now a Calm fucceeded that hor-
- rible 'Iempelt, and we had boa' lome Leilure to repair our
- Damage, and alfift one another.
- After this the Wind came about from the N.N.W. where it - was when ir blew fuch a Storm to N.N.E. and blew a frech - Gale, by which in about 24 hours we recoverd part of our
- Way we had loft by driving. Indeed from $+3^{\frac{1}{2} \mathrm{~d} .}$ to 57
- where we now were, we had no cafterly Winds, and fearce
- any fair days, but foggy and changable, the Winds ftill rang-
- ing from N. to S. (Wcft about) and generally hard Gales: We
- fearec knew what it was to have a moderate Gale; and from
- 46 d. to 50, we had but two days of gentle mild Weather.
- This Btaft therctore from the N.N.E was the more welcome
- to us, becauic unexpected, and becaufe it carry'd us off from
- a Place where we were in the utmolt Danger and Diftrefs.
- Y'et this kind Gale foon flitted too, and came to the S.E. - and blew violently there for fome time; but it flack'd again, - and we took the Adrantage of it for af hours, well cnough
but as I conc it, I propos' ' the N.W. in W. fide of $t$ - But juft a fprung up N .
- broughit fuch - bliged to ftri
- Mizen-yard
put right afor
N. B. Harc the Misfor and fuch T fo many da where, as and the ho for ucar a by Shocks Horror of there was tomething continued gether, and the moft te firm what th is Paffag St=ightso rienced Sc: moft practi Sea. Mon Palfage thu
6 It was ou
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- but as I conccived Hopes we were 9 d. to the weftward of - it, I propos'd, and it was refolv'd at all hazards to tha:d to

6 the N.W. in order to ftretch into the South. Seas, along the

- W. fide of the Terra del Fucgo.
- But juft as we were preparing for this Courfe, the Wind - fprung up N.W. and W.N.W. and blew with fuch Fury, and
- brought fuch a dreadful Sea along with it, that we were o-
- bliged to ftrike all our Yards and Top-malts, and even our
- Mizen-yard and Mizen Top-malt to the very utmont, and
- put right afore the Wind for our Lives.
N. B. Here the Author breaks out in an Exclamation at the Misfortune of being expofed to fuch a dulinal Voyage, and luch Terrors and Hardilips as he had been under tor fo many days, in pafting this dreadful part of the World ; where, as he fay's, befides the Reflection on Dangers paft, and the hourly Dread of what was to come, he had been for ucar a Month without Iutermiffion in fuch Agitations by Shocks and violent Rollings of the Ship; and by the Horror of the Waves, which fivell'd Mountain high, that there was no flanding, fitting or lying, without grafiping fomething that was well made faft : and adds, that all this continued with only one day's Intermiffion for 26 days together, and that to fuch a degree, as he had uever feen in the moft tempeftuous Climates. This Imention to confirm what is laid above, of the Dangers and Difficultics of this Paffage; which are fuch, that it is probable the St:eights of Maycllan will be thought by the moft expericnced Scamen, as they are already by the French, the moft practicable, fafeft, and eafieft Paffaye into the SouthSea. Monficur lirezar then concludes his Account of the Paffage thus.
6 It was our good Fortune that this Storm lafted but 2.4 - hours, at leaft in its firft Violence; after which it came a-
- bout by the W. to E.S.E. and blew a more moderate but frelh ' Gale; and the Sca continued running very high for feveral - days, even after the Wind was quite flatted.
- By this Change of the Wind to the eaftward, we got fof far - to the weftward, that to our great Comfort we were able af-
- terward to make ule of the S.W. and S.S.W. Winds, which
- we could never do before, but were obliged to lie by or drive
- before them, and to go every Day farther out of our Courfe.
- But now we could lead it away N.W. and N.W. by N. by
- which happy Relaxation of the Weather, and its continuing
- for three days together, we got into the Latit. of 5 I d. ha-
- ving been 28 days in the Paffage, making then the beft of

6 our way for the Port of La Conception on the Coalt of Chi-

- li, which was our appointed Place of meeting with the
- Mary our Conlort, if we were feparated one from another,
- and where we very happily found her, or rather were found
- by her, we getting there 2 days before her.

Having given thefe two Accounts of the Paffage round the Torra del linego by two Forcigners, we thall make the third the thorter, tho of our own Countrymen; which however is necelfary
neesfary, becule they took a difercat Courfe trom the other two ; aid perhaps theirs was the bett of the thiree, for they wene romd the Illand of Staten Land, and palling neither the Stritst of Magellan nor of Le Slame, but kecping out at Sca E. by S. and E.S.E. avoided all the Dangers of Lee Shores. Illands, Rocks and Capes, mention'd by both the other: and
yet thes counts $b$ to adve beatal calt:

## An Extract of the Account gieen by Captain W Cooke, from on board the Duke aid Duchefs, with the Particulars of their Paffage round th Scas.

To aroid a Repetaion of Particulars mutb the fimme in Sinbfance as the others, thes Alcount amounts in Sulffathe' to this.


IRST, That they took their Departure \%ecom:, 1708. from the Ifland Giranda on the Coalt of Brazil, where they had ftand is days, and hai revictualld and refrech'd themfelves lufficicatly for thar long Voyage, and intending to put in no where, or make any other Port, except forcd in, thll they came to the mand of 'Hum Fernandis in the South. S'as.

Accordingly they fet their Courte from the faid Coalt Lat. $2 ;$ d. or thercabouts as above, E.S.E. and by the 1 th of $\%$. comber were byagood Obfervation in Lat. $49 \mathrm{~d} .3=\mathrm{m}$. S. Here or hereabouts they made Land, but it was cridenit it was not the Contincnt or main Land of America, for it bore SSE. from them dift 9 Ls, and at 12 a Clock the 2 sth it bore S. W. Whe W. cudd dit. 6 Ls appearing as a long Tract of Land, whether Inands or not they did not know : bur after forne time it apFeard a a three Inands, and the next Day in teveral more, 10 that they b. liced all the Coalt which they had feco to long was only a continued Range of Iflands, tho joining to lome low Lands, which they could not fully difiever.

They could not weather this Land, the Wind blowing hard "alterly; fo they were forc'd to bear up. and run along the Shere of it, in from 3 to 4 Ls Offing, the Land lying as near as they could gucts E N.E. and W.S.W.

N: B. This is certainly the Land called Folkland's Iflandr, which fome Charts do defcribe, but very few; and thote fow it fecms do not lay it down right: The Middle of it (by Mr. Rogers's Account) is in 51 d . and he makes the Longit to be 61 d .54 m . W. from London; the two firlt Inlands cxtending about 120 milcs in Icugth.
They could not depend on their bcing clear from going on Shore upon them in the Night, not knowing how far they mught run our to the caftward; and therefore they rected their Courfies, and lay by all Night with their Heads to the north-
the $\mathrm{Sal}^{1}$ this Cor they to dy to to

The they wo light, but conturt Main-M the Mo consinn much; the Poo broke 1 a Clice Muntes ing, they built Shi recover delcribe

## rections for the Streights of le Maire.

the other yet they met with their Difficultics allo. no that all the $A c-$ for they either the g out at Shores. comms being duly weighed, the skilfill Marince who is retolved to adventure into thele difficult Parts of the World, camot be at a Loff for Duetions, and may make a Chome for himfelf:

## by Captain Woods Rogers, and Captain Fedward aidd Duchefs, two Private Men of War of Briftol, Wage round the Terra del Fuego into the South-

"in Subrliftance 10

Decom: : Coalt ot ad had re. icntly for no whicre, ame to the

Coalt Lat. ch of リim. S. Huc as not the i.S E. from 3. W. the 1. Whether sime it apmore. 10 cil to long ig to fome
owing hard 1 along the og as near
d's I/lauds, ; and thole iddle of it makes the c two firlt
n going on ow tar they rected their the north-
the Sall to I.ceward hung in the Water, and all a-back In this Condition the Sca breaking over them in a terrible mamer they took magreat deal of W.ater to Lecward; and being ready to founder, wore the Ship, and tood away atore it.

The Stom increafing, tho they recover'd their Mantail. yet they were not able to bring to agan, the Scagoing Mountams high, but kept fanding and rum away to the fouthward. her Conkort the \%ink followingh expecting the had firmeng her Main-Maft. They contmue . WisCondition till about; ma the Morning, when the Stom begne to abate ; but the Scat cominucd to go vary high. The louche's had fifferd very much; the Sca hat broke in at the Cabm-W'indows and over the Poop, had fill'd the Stecrage and the Wafte; and one Sca broke to entirely over thom, that the Ship receiveng as it were a Chack in her Courfe, Icem'd to ftand Ituck thill for fome Mmutes ; which pat the Menato the utmolt Contumon, cypert. ing, they thould immediately founder: but beine a frong well. hult Ship, and the Men very handy at claring their Walte, the recover'd it, and weut on, tho in a dreadtial Storm, not to ac delcribed by words.
$\lambda$. B. Thete things are mentiond, farther to conlimm what has becn fad, namely, that the Rage of :ise Whind and the Violence of the Waters in thes Part are lach as are not ordinarily met with in any other Place if ever: and ins it is almoft out of the Power of Art to carry a Ship thro' them ; allo to note, that no Ships have patidthis way but at the extremeft Hazard; which adds to the Force of what has been offer'd, of its being thought better by modern Sailors to return to the old Pallage of the Streishts of Aiagellan ; and theretore thote things may well be called part of Saling ' 1 Decheons for Palfing into the South-Sas.
On the ioth of fare the Stoms abating, they had an Ot. fervation, and found thomelves in Lat. 61 d .53 m . Io: sir W. from London 79 d. 58 m . to that now they were aftured of being far enongh to the weftward of Cope lownc, and open it ith the great fouthern Oecan. 'Tis atio the farthelt S. that we have any account of, has becn rum by any other Ship. was only a continued Range of Iflands, tho joining to tome 10. L.ands, which they could not fully difiover.

They could not weather this Land, the Wind blowing hard wefterly; fo they were forc'd to bear up. and run along the Shore of : t , in from ${ }_{3}$ to ${ }_{+}$Ls Offing, the Land lying as near as they could gucfs E.N.E. and W.S.W.
N. B. This is certainly the Land called Fall Land's Iflands. which fome Charts do defcribe, but very few; and thole few is fecms do not lay it down right: The Middle of it (by Mr. Rogers's Account) is m g d. and he makes the Longir. to be 61d. 54 m . W. From London; the two firt llhands cxtending about $1: 20$ milcs in length.
They could not depend on their being cicar from gong on Shore upon them in the Night, not knowing how far they might run out to the caftward; and theretore they rected their Courfes, and lay by all Night with their Heads to the northward, the Wind blowing hard at W. by S.

On the 2 th, being clear of the Illand above, they fet fail aguin, flecrmy S.E. Lat. $\mathrm{y}=\mathrm{d}$. At Noon they faw the Land again, and oticier'd that it went trending alway foutherly.

On the 25 th they had a frong Gale at S.W. the Iflands ftill in vicw ; but at 6 in the Evening loft fight of them, and could never come near enough to fee whether they were inhabited or no. Here they fpent fome time ingiving Chafe to a Ship which they faw under thar Lece-Bow ftanding S.W. But next night lott fight of her, and the next Day gave her over, and returnd to their former Courle S.E. Which is mention'd, to note that Ships from the South). Seas (as that muft be) have kept ais outward Courfe, as well returnng as going out, cyen wefore this.

On the 26 th at Noon they faw Land again, being a low plain Ifland. loanng W.N.W. ditt. + Ls, and nor taken notuee of in any of the Chares. The Wind blowing S. they ftood away E. for fear of ruming alhore upon the faid Ifland, and kept as near the Wi: 1 as they could. The next Day it blew very hard with ftrong Squals from the S. and about to the W. Now being palt the Latut. of the stecights of Magellian, as allo of Le' Maire, they made all ting, lowering their Guns mino the Hold, and recting their Courles, expecting hard Gales, and a high Sca, Latit. 55 d .58 m . the Couric S. by E.
'I)ec. :c, having had frell Gales from the W. and W.N.W. they had run at a great Rate; and having an Oblervation, found themiclues in Lat. $4^{8} \mathrm{~d} .20 \mathrm{~m}$.

Ifrn. I. Freth Gales trom the W.S.W. to W.N W. with Mitt and $F$ or, but the Sca moderately finooth, which contmued to the eth, when juft at Noon the Wind having flutter'd a while abouc W.S.W. it began to blow very hard. The Tuke expecting the worlt, got down her Fore- Yard, and rect 'd her torefinl and Mainlal. About 2 a Clock it blew a violcut Storm, and came on with a great Sca prodgrous ligh and hollow:

A hitele before fix the '/)ucherfs made Sigmals of Dilliefis: In kuwcmug her Main-yard, the'Tack flew up, and the L.ift murecred:
ad feen to long joining to fome
ad blowing hard d run aloug the d lying as near
14. land's I/lands, tew ; and thole e Middle of it he makes the ; the two firit
$r$ from going on ig how far they chey rected their Is to the north-
e, they fit lail y faw the La:ad toutherly. the Inlands ftill them, and could were imhbited Chate to a Ship S.W. But next her over, and s mention'd, to ft be) have kept joing out, cien
in, bcing a low d not taken noing S. they flood laid Inand, and ext Day it blaw about to the W. of Magellin, as ; their Guns into hard Gaies, and E.
W. and W.N.W.
an Oblervation,
N W. With Mıt ich contmacd to tlutter'd a while he 'Duke' cxpoctrect d her forea violcut Storm, and hollow.
Is of Diftrcis: In he I.ift uncer'd:
actetmax dy wortis
N. B. Thete things are mentiond, farther to confirm what has been fand, namely, that the Rage of :he Winds and the Violence of the Waters in this Part are lach as are not ordinarily met with in any other Place if ever: and is it is almoft out of the Power of Art to carry a blipe thro' them ; alfo to note, that no Ships have pals'dthis way hue at the extremedt Hazard; which adds to the Forece of what has been offer'd, of its being thought better by modern Salors to return to the old Paniage of the Stretiohts of AiaSellan; and therefore thote things may well be called pait of Sating 'Davedzons for Palitity into the South-Scas.
On the ioth of "/an. the Storms abating, they hat an Ob. fervation, and found themfles in Lat. 61 d .53 m . Lonsir W. from London 79 d .58 m . to that now they were aflured if being far enough to the weltward of Copec liovar, and open with the great louthern Occan. 'Tis ato the fartheft S that we have any account of, has been run by any other Ship.

Tho the Winds were abated from the sth to the 1 oth of "/an. yet they had a grown Sca, and elpectally out of the W. with itrong Gufts and Squals of Wind; which kept the Men to luch hard Service, that with the lextremity of Wat, Cond and Labour, many of theor beit Scamen ficken'd, and almott limk under the Weight of it.

From the ioth they ftecrd away N.W. and N.W. by N and on the 15 th tound thenfelves in Lat. of 56 d to that then they accounted themetres in the South. Seas, having in all this Run never made any Land either of Statest Lathd or the Tirra del lueso, Cape Horne, or any where elfe, except the Ithands mention'd above; and having been 23 days in the Voyage round, $z z$ from the zad of 'Dec' to the 1 , th of \%\%

Thus you have Directions founded on the Experience of :ble Mariners of all the three Nations, for lailing chro' this ditficult tho important Paffage.

But it muft not be omitted, that befides all thefe ways, there is yer a fourth, which has becu difiover'd very lately by the Ficuch, and which bids tair to be the caficet and liteft of all; and thes was unhappily over-look'dby Sir Goln $\lambda^{\prime}$ arloronsh in his Obtervations, whichwe have already given an Account of.

In that Account you may oblerve a deep Bay, which Sir Jobug gives a thore Defintion of, on the South Shore of the Streaghe, and oppofite to Elizabeth's Ifland, which he calls "Wate's Ras. becaute he law thoulands of "1 bede's playm: mat at ; but adds, that he ded not fearch far moto it

It was very mhappy that Sir yobu, whole whole Errmal and Defign was to take a perfect Surves, and make a complete Dificovery, thould ice fuch a decp Sound or Bay, and not fearch into it; clpecially if it is true, as Monf / rive atlerts, and as we have great reatun to beheve, that this Sound was an Opening moto the great South. Sea; and not only ko, but thit whereas the Crooked Reach and the Mord $\lambda$ arroe of the Streight, which Sar "ohn confelfes to be the mott dificult and hazardous of all the Patlage, are by that Opemang anoule!! and that che other, whichis now salld dee chamel ofst liat be,

## Sailing Directions for the Coafs

is an cafy and much fhorter Paffage, having good Soundings, fafe Harbours, and feveral Roads and Anchoring-places on both fides; fo that there are no vifible Dangers yet difcover'd.

This Outlet or Paffage, we are told by Monf. Frezier, was difcover'd Anno 1713, May the 15th, by Capt. Marcanille, in a Ship or Tartane of Marfeilles, call'd the St. Barbara. Take the Account from his own Words thus:
' About fix in the Morning they fail'd from Elizabetl's Bay - on the N. fide of the Channel of the Streight of Magellan, - Atcering S.W. and S.W.by S. They took the common Chan-- nel for that of the Rio de Maffacre, and were ftanding to the - S.W. on an Inland which they took for that call'd l'Ifle - Taupbine. They were affifted by the Currents, and a good - Gale at N.E. both which were in their favour: With thefe - Helps they ran along the Ifland; and within an Hour after - they had pafs'd it, they found themfelves entred into a large - Channel, where on the S. fide they could fee no Land, ex-- cept a great number of finall Iflands, or rather Rocks, a-

- mong abundance of Breakers of the Sea , which when the
- Wind blew off Sea made a horrible noife.
- As the Defign of their Voyage was to pals thro' the ufual
- Channel of Magellan, they began to be convinced they
- were out of the way, having a true Chart of Sir 70 hn Nar-
- borougl's Voyage before them : They fought therefore for
- fome Road or Bay, where they might come to an anchor, fo
- to gain time to fend their Boat to make fome Difcovery of
- the Coaft, and if poffible to learn whereabouts they were :
- Accordingly the Boat went off, and found a little Bay; and
- making the agreed Signals, the Ship went in, and anchored
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## Sailing Directions for the Coafts of Chili and Peru

 in the South Seas, from Cape Deffeada at the $E$, in Lat. 53 d. 10 m. to Chulao on the Coaft of $\mathbf{C}$ to the Bay or Gulph of Panama.

ROM Cape Deffeada, which is the fouthermolt Point of the Mouth of the Streights of Magellan, to Cape 'Pillar, which is on the lame Shore, but a little more opening with the Streight, is about 2 Ls N.N.E. From thence N.N.W. lic 4 Illands in the open South-Scas, and quite clear of the Streights calld the Illes of Derection, dift. from Cape Pillar 6 Ls, from Cape DTefleada $7 \frac{1}{2}$ to 8 L.s, and from Cape Victoria, which is the N. Doint of the Streight, a little lets than ${ }_{4}$ Ls, being in the Fair Weay or Eutrance into the Mouth of the Streight ; the caftermoit of them fanding up in a Pico or high Rock, is call'd by the Sailors Sugar-Loaf Ifland.

From Cape Victoriu the Land falls off at once to the N . and the Coaft of 'Patagonia appears trending away due N . and S. a wild dciart Coalt, which makes in illands and Rocks next the Sca, and high Mountains within the Land, the Tops
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Compla
fcript $F$ of $A m e$ ' When ' to fee - Manu - thant
oundings, places on difcover'd. zier, was canille, in -a. Take aon Chanling to the all'd l'Ifle ind a good Vith thefe Hour after ato a large and, cxRocks, awhen the
, the ufual nced they 7obn Narrefore for anchor, fo covery of hey were : Bay; and anchored
' there in ${ }_{14} \mathrm{Fa}$. very good Ground, the Bottom a grey and - white Gravel.

- The next Day they weigh'd, and the Bay being open to ' the E.S.E. they made fome Trips to get our, and then ftood - away S. S. by W. and S.S.W. and by Noon they were got - out from between the Lands and Inlands deffrib'd ; and ha; ving a very clear Oblervation, found themfelves in Lar. 54 d .
' 34 m . And this Lat. was coufirm'd by another Obfervation
- which they took the next Day having the little Iflands men-- tion'd above, in fight, bearing E: from them, and there they
- found 54 d .29 m . And thus they were in the open South-Seas
- fooner than they expected, and there they found 54 d. 29 m .
- There was alfo a larger Illand, the S.E. Point of which ' they call'd Cape Noir, or the Black Cape; the Land appear-- ing at a diftance very dark and black. The little Illand it felf ' is a Rock fhaped like a Tower, of an extreme height, by which - there is a fmaller much of the fame Shape. If fo, it would be ' next to impoffible to mifs this Channel, if fought for in its ' proper Latitude, and upon fuch very particular Marks.'
N.B. The Ship's Crew lay there is a good Bottom and moderate depth thro' that whole Channel, and that great Ships may pasis there without any Danger, the Chaunel it felf alfo being 2 Ls broad in the narroweft part.
1 leave this Account as I find it, having fatisfy'd my felf by giving all the failing Directions that have come to our Hand, or are poffible to be had, concerning this important Paffige to the South-Seas; without paffing any Judgment on the whole, other than this, That certainly this laft merits to be farther fearch'd into, as being in all probability capable of giving the cafieft and fafeft Paffage of all the reft.


## Chili and Peru, on the Weft Shore of South America

 feada at the Entrance of the Strcights of Magellan, the Coaft of Chili in the Lat. of 43 d. S. and thencejuthermolt Magellan, tore, but a about ${ }_{2} \mathrm{Ls}$ ads in the call'd the from Cape $h$ is the N . in the Fair the cafteris call'd by
to the N . due N . and and Rocks , the Tops
N. B. All our modern Navigators and Men of Art con?plain that the Charts are falf in delcribing this Coaft : Sir 7ohn Narborongh fays they do not lay down the icveral illands which lie upon it, but defcribe it all along as a ftrait Coaft, and complains that there are, befides the a-bove-mention'd, eceveral other Illands adjacent to the Coart more foutherly, particularly in Lat. 45 and 45 d. but that none are laid down.
It may be oblerved alfo that Monf. Freaior makes the like Complaint of the old Charts, and particularly of the Manufcript French as well as Spanifl Charts, rclating to this part of America, which we call the Coaft of Patugomia: He tays, ' When we came up to 40 d .40 m . L.at. We were furprized - to fee Land 40 Ls fooner than we expected, according to the - Manufcript Chart of St. Malo; tho we had found it betcer - than tine 'Dutch as far as the Streight of le Maire. In thort, - wefownd that tho Seter Goes had thrult back the Coaft of

## in Lat. 53 d. 10 m. to Chulao on the Coaft of to the Bay or Gulph of Panama.



ROM Cape Deffeada; which is the fouthermolt Point of the Mouth of the Streights of Magellan, to Cape Pillar, which is on the fame Shore, but a little more opening with the Streight, is about 2 Ls N.N.E. From thence N.N.W. Lie 4 Iflands in the open South-Seas, and quite clear of the Streights call'd the flles of Dircetion, dift. from Cape Pillar 6 Ls , from Cape ODe//feada $7^{\frac{1}{2}}$ to 8 L.s, and from Cape Victoria, which is the N . Point of the Streight, a little lefs than 4 Ls , being in the Fair IV ay or Eutrance into the Mouth of the Streight; the eaftermoit of them ftanding up in a Pico or high Rock, is call'd by the Sailors Sugar-loaf Ifland.

From Cape Victoria the Land falls off at once to the $\mathbf{N}$. and the Coalt of Patagonia appears trending away due N . and S. a wild delart Coalt, which makes in Inlands and Rocks next the Sca, and high Mountains within the Land, the Tops of them gencrally cover'd with Snow.

The firft known Land, tho uninhabited, is an Inand call'd by the Spaniards, Neuflra Sennora del Socoro, or Our Lady of Socoro, or of Succour: The Courfe lies along with this Illand N.E. by E. the Land makes rounding up at the eaftermoft and, aud with a Ridge running from end to end, tho lower in the middle than at either end. The S. Shore is all rocky and foul, and the Rocks lie far out very dangerous. This Ifland is in Lat. 45 d. The Variation of the Compais here is d. cafterly.
N.E from this wild Place lics another large 1fland, which Sir Juhn Narborough went a thore upon for Difcovery, expecting it had been the Main of Patagonia, but found it an illand, and uninhabited allo; and not finding it in any of his Clarts, or any Name for it by the Inhabitants of other Parts, he gave it his own Name, and it is now mark'd down in the Charts for Narborough's Ifland: He found Wood and Water here in great plenty, and good anchoring, but neither Man nor Beaft on the Place, or any Refrefhment.

There is a Channel between this Ifland and the Main, but it is foul and dangerous, many Focks lying in it under Water: The Paffage is about 4 Ls in length.
S.E. from Narborouglj's Ifland, upon the Main, and dift. 3 Ls, there lics a large Sound running far into the Land, and into which a large River empties it lelf: The Opening lies in E. and W. in Lat. 44 d. 50 m . All the Coaft to the fouthward is wild, uninhabited, and ftrew'd with Illands and Rocks, which itand up copling like Pico's, as if giving warning to Sailers to keep off at their peril.
N. from Narborough's Ifland, in Lat. 43 d. 47 m. lies another call'd No Man's Ifland: This is the fame which the Charts make to lic at the S. end of the Ifland Caftro, and at the Mouth of the Chauncl which runs up between Caftro and the Main.

## on the Coaft of Chili in the Lat. of 43 d. $S$. and thence

fouthermolt of Magellan, Shore, but a is about ${ }_{2} \mathrm{Ls}$ flands in the tss call'd the s, from Cape hich is the N . ig in the Fair ; the cafterk , is call'd by
ace to the N . y due N . and s and Rocks nd, the Tops

Ifland call'd Our Lady of ng with this at the cafter1 to end, tho Shore is all y dangerous. Compals here
fland, which ificovery, exfound it an it in any of ants of other nark'd down d Wood and ; but neithcr

Main, but it ander Water :
in, and dift. he Land, and pening lies in he fouthward and Rocks, $g$ warning to
m. lies anoch the Charts at the Mouth the Main.
N. B. All our modern Navigators and Mcn of Art complain that the Charts are falfe in deficribing this Coaft : Sir 70 onn Narborough fays they do not lay down the leveral illands which lie upon it, but deferibe it all along as a ftrait Coaft, and complains that there are, befides the a-bove-mention'd, feveral other Illands adjacent to the Coaft more loutherly, particularly in Lat. 45 and $45 \frac{1}{2}$ d. but that none are laid down.
It may be oblerved allo that Monf. Frezier makes the like Complaint of the old Charts, and particularly of the Manufcript French as well as Spanifb Charts, relating to this part of America, which we call the Coaft of Patagonia: He lays, ' When we came up to 40 d. 40 m . Lat. we were furprized ' to fee Land $4 \circ$ Ls fooncr than we expected, according to the - Manufcript Chart of St. Malo; tho we had found it better - than the Dutch as far as the Streight of le Maire. In thort, ' we found that tho Peter Goes had thruft back the Coaft of - Patagonia 60 Ls too far weftward, with refpect to Brafil, ' yet according to his Longitude we here came upon the ' Shore very exactly; fo that it cannot poffibly be right on ' both fides,' There are many other Objections againft the gencrality of the old Charts, but too long to infert herc.

There is little of note from the Mouth of the Streigbt of Magellan, except as above, to the Illand of Chiloe or Cbisilao, in Lat. 42 d .30 m . From the N. Point of the Streight call'd Cape Vittoria, to the fouthermoft Point of the Iflands in the Gulph of Chilo, called Acon fin Salida, is 62 Ls ; from thence to Cape Corzo, in a Nook or Bay, 36 Ls: And from Cape Corzo to Cape Tres Montes ${ }_{3}$ Ls morc N. and S. In all which diftance there are fome Bays and Rivers, but no Ports or Towns; neither do we meet with any Inhabitants, at leaft Europealls, and very few others.
N. B. From the Streight of le Maire, to Cape Deffeada, or to the twelve little Iflands off of that Point call'd the Twelve Apofles, the Coaft winding round Cape Horne, the diftance is accounted, without allowing for the fouthing and wefting, 125 Ls .
The Illand of Clisioe is very large, tho unequal in its parts: ${ }_{22}$ Ls in length N . and S . but in fome places not above ${ }_{+}$L.s in breadth. At the N. Point is the Cabo del Anco, from whence all the Gulph or Inlet between the Ifland and the Bay is calld the Bay of Ancon. It is full of Woods and large grown Tinber gencrally Cedar, but very fit for building of Ships; and they build Ships here for carrying the Timber to other places, fo that here mult be both Bufinefs and People.

On the infide of the Ifland is a good Road; the Eutrance goes in, on the S. of the great Illand, and between that and the Ifland Guafo. The Bay is full of ulands, too many to defrribe; nor are they of any ufe in Navigation, teceing there * U u
a:c
are no Ports or Commerec to bring Shipping to the place, ex- S.S.E icpe to the great Inand, as above. All the W. fide of the Illand is craggy and foul, execpt one little Bay in the Middle, where is the Port of Cbutao: But the beft. or at leaft the chicf Sctement, is on the E. fide of the Ifland, at the Spanil/h Town of Cadiro de Chiloc. Here the Ships come from P'ruto Ioad Timber as above for the Sinipurights of Callio, Griantuil, ※c.and here are oftentimes Ships of War alfo buile. If you would go in here, it mult be by the S. Channel; alfi) between the main Illand, and the Ille Gruafo. It is a fair decp Channcl, no lefs than to l.s wide; and you may turn it up or down, it is all clean from fide to fide, neither Rock or Illand in the way.

The Illand Guafo is $4^{\text {Ls }}$ in Iength, with two grear Points, one ftretching out N.E. and the other S.E. the Ifland lying in that Pofition. The S.E. Point is foul, and has feveral Shoals running out from it half a L to Sea, and feveral Ships have been loft upon them ; therefore you muft kecp off at leaft ncar a L., and kecp your Lead going all the way.
$N . B$. The middle of the Illand where the Caftle is, lies in Lat. +3 d .
The whole length of the Bay of Ancon, or Cbiloc, is 96 Ls in length; the $S$ part is calld Cabo Tres Dlontes, lying 10 Ls S. from Guafó, trending N.E. and S.W. The Cape is high and mountanous, and at the Exremity forms three Points, trom whence it has the Nance of Tres Montes.

At the N part of the Bay lics the Port and Fort of Caralmapo: Herc the Spani/h Ships put in, to land the Supplics neceffary for the teveral Garrifons upon this Coaft. To go tate into this Harbour you mult lie clofe aboard the Shore on one file or the other: elfe the Current, which fets out between the Ifleud Chiloe and the Main, and is very ftrong in the MidChancl, will puth you out, and you will not be able to ftem it, no not with a ftiff Gale of Wind.

The Port of Caralmapo is at the Bottom of a finall Bay, in Latr. 22 d .30 m . There is dece Water, and you may antchor clote to the Shore. From this Port to the neareft Land of C.hise is = Ls N. and S. The N. Land of the lland is callid $P$ mutad de Anco.
Fiom licnce the Shore lies N. and S. to the Bablias, or Pas ef Lath, dift. 3 L.s; and from the Bays of Lago to 'p'oint Ciactor is + Ls more N. and S. None thould go into the Busof La bout upon evident necefity; and then at their peril let them keep clofe to the N. Shore of the Entrance, for the s. Shore is toul, and has many dangerous Shoals, which run out very far into the Sca, and make it difficult to know the Channel: And 'tis very rare to get a Pilot there.

From P', int Godos to Rto St. Pedro, or St. Peter's Rizer, or as tome write it, 'P'ucrto de San 'Pedro, the Port of St. Yeter, is $1=$ I.s. On the Coaft between lics Point (.) wedar, SLs to the S. of St. Pedro, the Courle N.N.E. The Coaft between trends N.N.E. and S.S.W. There are three Rocks lic off the 'Point Gidoi, but they are bold and ftecp too, to that you may fail clofe to them on any fide.

From this Point Pedro to Cabo de Gatera the Coaft continues to fretchaway N.N E. The diftance from Point (9)!e-

## etions for the Coafts of Chili and Peru.

c place, exfide of the the Middle, calt the chicf the $S_{p}$ ani $/ / /$ om Piruto 0. G?:aquil, f you would between the ep Channcl, or down, it 1 in the way. rreat Points, and lying in -cral Shoals Ships have off at leaft
lc is, lics in
iloc, is 96 Ls lontes, lying The Cape is forms threc antes
ort of Caralthe Supplies saft. 'To go the Shore on out between $g$ in the Midable to ftem
a fmall Bay, ou may anncareft Land the llland is
c Baluas, or of Lago to ldgo into the then at their Entrance, for hoals, which to know the
'eter's Rizer, Port of St. Point (.) medar, The Coalt threc Rocks ftcep too, lo
c Coaft conin Point (.) ne-
S.S.E. and going under the E. Shore in 9 to 6 Fa. The Point under Lort de' Morgue being that off; almoft half Chamel over.

Keeping thus uader Shore, you come to another Point on the Larboard fide, called 'Pount de Corral, on which there is allo another Fort called Fori du Corval; under which there is very good anchoring as in a Harbour, and which is called 'Pout Corral, but that is out of the ordmary Channcl: To go in there, Ships mull of necellity round the Shoals of the firft Fort, and then fteer in on the Starboard fide to a Fort which lies on that Shore, purely to detend the Road, which is very good: allo when they round the taid Shoals, they mult go to far over to the other Shore, as to come under the very Murzales of the Guns of a Fort on the Larboard fide, called Fort de Nicbla, the Shoals lying off to far into the Channel as to make it neceffary.

Oppofite to this Road, under Port Corral, lics an Inand duc E. and W. from it, called the Ifland of Conflantine Peres; on which there is another Fort called Manfira, with a large Battery of Cannon. Between this Fort and Battery of Mattfera, and the Fort Niebla on the Point mention'd before, gocs the Entrance into the Harbour of Baldivia. There is another Entrance alfo on the back of the Ifland Conflantime Peres, but it is only for finall Boats.

If you go up to the Town, you muft go in here beeween thete two Forts, ranging along the fide of another large Ifland; behind which, upon the Main, is the Port, which is to commodions. that you may lay your Broadfide to the Wharf, and land or load Goods withour the help of Boats, as at a Crane or Key.

Wherever you anchor in thele Channels, you are lafe againft all Winds: alfo if you have but Water enough, you are fure the Bottom is good, being a hard oaze; and there's no Sca or Swell, except in Port Corral and there only when the N.W ind, Whach blows right in, blows hard off at Sca.

From the Murro de Ronifacio to the Port du Corral is 5 I.s S. by E. From the Headland. or Point Gonzaler, to \% unt Corral, is a little above $=$ Ls. The Courte from the fame Mouth of the Harbour to Fort Nichla is N.W. and S.E. when you are in this Courle, Mid.Channel, oppofite to $\%$ 'ut Nebla, you are jult between the two Forts Nicbla and (iorral, the later due S. the former N.N.W. In the Rois of Port Corral you lave from ato 7 Fs. where you pleafe: and at the end of the Strand towards the S.E. is the Watering-place, which is very convenient tor the Water; but take heed of the Natives, who not knowing your Nation, and mortally hating the Spaniards, will cut all your Throats for Spaniards if they can : you mult therefore take care not to let your Boat lic aground, and to keep your Oars as weli as Arm. ready. Many Europeans have been murderd here for want of this Care.

The Spaniards call this the Key of the South-Seas; and the Port beng fo good, it is for this reaton they have fortify'd the Entrance with to many Lines and Batteries, there being above 100 Guns to pals before you can come into the inner Chamel, befides what are at the Town it felf: yer it is not difficule to attack the Place by a finall body of Men landing below the Forts; the $\mathcal{Z}$ utch once took it by that Method, but were o-

$5.0 y$ Corria Mout you Nite ral, Port at the whict Nativ the $S_{f}$ can : groun Eullo
ou may annearefl Land he llland is

Baliuss, or of Las's) to dgo into che hen at their ntrance, for 1oals, which to know the
etcr's Ricior, Port of $S_{t}$. oint (e) ecdar, The Coalt hrec Rocks Atcep too, to

Coalt con${ }^{1}$ Point $(\cdot)$ reCape Galer'a and makcs Ifo to the N . ithin Land, iin another, nd of Gon'ort of Baland W. by S. Situation of the Bay govery remarknave a great he Deferptirds.
Chili, you Morro Boni$m$ this Point ing N.N.W. 1 Birth, and E. into the
to the E. of this is call'd it Linc from outh of the properly in"ta Galera. is about ${ }_{4}$ I. and the god to fhoaling one another, in breadth; ittery, call'd rd, kecping
 Corval, is a little above $=$ Ls. The Courte trom the lime Mouth of the Harbour to fort Nerbla is N.W. and S.E. Whan you are in this Courle, Mid-Channel, oppofite to y'ont Nubla, you are jult between the two Forts Nitbla and Corrat, the later due S. the former N.N.W. In the Ro.d of Port Corral you have from 4 to 7 F.l. Whare you pleafe : and at the end of the Strand towards the S.E. is the Watering place. which is very convenient for the Water; but take heed of the Natives, who not knowing your Nation, and mortally hating the Spaniards, will cut all your Throats for Spaniadids if they can : you mult theretore take care not to let your Boat lic aground, and to kecp your Oars as well as Ams reaciy. Many Europeans have been murder'd here for want of this Care.

The Spantiards call this the Key of the South-Seas; and the Port beng to good, it is for this reaton they have fortify'd the Entrance with to many Lines and Batteries, there being above 100 Guns to pats before you can come into the inner Channel, befides what are at the Town it felf: yet it is not difficule to attack the Place by a fimall body of Meia landing below the Forts; the 'Dutch once took is by that Method, but were obliged to abandon it again in $16+3$. atter wheh the Fort Manfira was bult by the Come de Manfera, who drove them out.

If you are bound to the northward from this Porr, you mutt always endeavour to ftand out to Sca for at leaft 7 to 10 and 12 Ls; for the wefterly Winds which blow here to fiequent, are often fo violent, that they will endanger beating you back again into Harbour, or putting you to itruggle with a Lec Shore which may be very dangerous.

From the Morro del Bonifacio at the entring into Baldivia, to the Itland Moc/sa, the Coaft lies N. and S. the dift. between them zi L.s. Oppofite to it on the Main is the Rio de Imon' rial, the Inand Mocha bearing from the Main E. by S.and with Rio Imperial N.W. by W. and S.E. by E. alfo it bears with Point Galera N. by W. and S. by E. and with the Illand of Ifan Fermandes N.W. by W. and S.E. by E. dift. So Ls.

Between Morro del Bonifaczo and the Reo Imperial, lic firf the Coalt of '. 'uevete, or Algurutti, the lowelt tlatreft Land on all this Coalt, dift. is Ls; from thence to Imperial 10 Ls . There are fome Shoals lic off from the Ifland of Mocha W.S.W. keep off therefore from that fide of the Illand, with your Lead and Line in hand: The Land is high, and the reft of the Shore of it bold and clean.

The River Imperial has a good Depth of Water, and good anchoring in the Mouth of it, but not far in : the Land is low, but the Bottom is clean and good. From hence the Coatt lies N.N.E. and S.S.W. to the Mland of St. Mary, or Simta Mlaraa: The dift. is 10 Ls to Tucapel, and 10 more from Tucaf to St. Mary; or according to other Charss it lies thus: From the River Imperial to Tucapel 10 Ls ; from Tucupel to Por:a Cornery + Ls, and thence to St. Mary's 10 Ls. The Difference feems to be occafion'd by a Bight or Bay, which goes in to Porto Cornero.

The Illand of St. Mary lies oppofite to, or as it were in the Mouths of the Bay of Lazapli, Here is good Anchorma.

## Sailing Direlions for the Coafts

ground under the Mland on the fide next the Main, and the Bay affords good Shelter from loutherly and wefterly Winds; but the N. or N.N.W. blows right in, and makes a great Sca. The Bay is dift. from the River Biobio; or Viovio, near 7 Ls.

On the off or W. fide of St. Mary's Inand, there runs out a Shoal near half a $L$ into the Sea; you mult be very careful of it, for feveral Ships have been loft upon it. This Shoal and the Tetas de Viovio bear from onc another N.E. and S.W. Thefe are two high Rocks at the Mouth of the River Biobio, and by which the Enerance into it is known; for the River is large, and the Mouth of it very wide.

Two Ls N.N.E. from the Mouth of the River lies Port St. Cinccent ; 'tis a fafe Harbour, and fecur'd againft all Winds except a W Wind, which blows right in.
From the Ifland of St. Mary to the Port of Talcaguama is ${ }_{11}$ Ls N.E. and S.W. being 2 Ls to the northward of Port St. l'incent.

This Point of Talcaguama, with the Inand Quiriquina, make the true Port or Haven of the Conception; that is, they lic in the Mouth of the Bay, the Illand lying off and thwart the River, and within the Bay, and the Point of Talcaguama on the Starboard fide of the Encrance due W. from the IIland, and lattly, the City of the Conception S.E. from the Illand in the Bottom of the Bay. The City is rather called Penco, and the Bay and River La Conception; but the lateer has fivallowed up the former, and they are ordinarily called all by the fame Name.
This Port is diftinguilh'd alfo by the Inand 9 Quiriquina, lying ${ }_{2} \mathrm{Ls} \mathrm{N}$. from the Tetas or 'Dugs of Biobio. That Ifland forms 2 Palfiges, one N.E. from it, and one W.S.W. The former is the beft for large Ships, being half a $L$ wide, and clear of any Danger; the other may be paffed with Care, and in cale of neceflity; but it ought to be well known, or it is dangerous venturing, there being a long Ridge of Rocks, which advances far into the middle of the Chamel.

When you are cuter'd, you may anchor in 15 Fa. foft black ouze : take care to lic to the fouthward of the Point called Her radura on the Continent, and S.E. by S. of the Point of the Inand $Q$ )uiriquina, with which the Point Talcaguama forms the Entrance.

Within the Point Talcasuama lies the Port or Harbour of the fame Name, dift. about ${ }_{2}$ Ls. You may ride there in ${ }_{3}$ to $4 \frac{1}{2}$ Fa. foft ouze ; and you ought to moor N. and S. two little Points of the Peninffla bearing from you N. by W. upon a Linc from cach other, and a Crook called The Three Maids, N.W.

The whole Bay is a beautiful Place; it is 2 Ls wide E. and Wi. and; Ls decp in, N. and S. moít of it clean Ground: yet there are but 2 good Roads in the whole Bay, one at the S. Point of the lland $9_{2}$ niriguina in 10 to 12 Fa a a Cable's Ingth from the Shore, and which, tho a good Road, is Icts frequented than the other, becaufe remote from the Town: the other at the bottom of the Bay, as is faid, near the Village de Talcaguama, in 4 to 7 Fa. the bottom foff black oaze.

To come to chis Bay, Care mult be taken to avoid the Tail of the Shoal I have juft fioken of, which ftretches out
from the Hout that if a N. Wi ftand over to the Point of $T$ riquina: bring one another, an

The Port of fimall Bay $1::=$ There are; or which the Roa blow. From t is Itata, or Yta ncither is $r$ tat a fimall River o

From Itata and S.S.W. is 7 mos and the Ba Leagues togecho cept abour the I Shore, where S Points and Bays

From 'Point Courfe is N.N 35 d .30 m . I caufe of leveral Ships bave milc Ls up the Coun tcr Mark. Tl River, but the good on both fi Bauks of the Ri anchoring to th but northicrly W

From the Ris N.E. Here is a for lome Space like the Shore Here the Mour feco upon this La Conception.

From Lorat You may anch all along this S you run only liable to tecribl Ifland within, Ground. This
From thic C Curcaoma is 15 bout 6 Ls fliort nas, or the Sal Salt, and many choring place i Land is low, a from the Anch
:he from the Houfes, (for the Buildings lie along the Strand) to that if a N. Wind blows in, you may be ready to weigh and ftand over to the fouthward Paffage, and anchor again uader the Point of Talcagnama, and under the Lee of the Illand wan riquina: bring the Ifland and the Point in a Linc bearing from one another, and you will ride caly thelterd trom the N.Winds.

The Port of Herradura is in Lat. 36 d .15 m . S. it lics in 1 fimall Bay l:::こ a Horfhoc, from whence it takes its Name: There are $3^{\text {or }} 4$ high Rocks in the Entrance into the Bry, by which the Road within is Landlock'd from all Winds thit can blow. From this Bay, or the Point of it, the next Port $N$. is Itata, or Ytata, dift. 5 Ls, no Place of importance bewween; neither is Ytata it felf a Place of any Bufmeis: there is indeed a fmall River called Ifata alfo, but the Port is not good.

From Jtata to Point Humos, the Coaft lying fill N.N.E. and S.S. iW. is 7 Ls. It is remarkable, that berween Point Humos and the Bay of Herradura the Sea is to decp, that for 12 Leagues together you have no Soundings, nor any Bottom except about the Mouths of the Rivers, and fome few places under Shore, where Ships come to an anchor under the Shelter of the Points and Bays on the Land-fide.

From 'Point Humos, or Yimos, to the Rirer Munt, the Courfe is N.N.W. dift. 10 Ls. The River Matal lics in Lat. 35 d .30 m . This Point is accounted very dangerous, becaufe of teveral Shoals which lie betore it, upon which many Ships have mifearry'd. The River Math' is navigable; to + Ls up the Country: there is; Fa. in the Entrance at low Water Mark. There are 2 great Rocks in the Mouth of the River, but they are feen above Water, and the Channel is good on both fides of them. They build good Ships here, the Banks of the River being full of good Timber. There is good anchoring to the Leeward of the Port with a foutherly Wind, but northerly Winds make a foul Shore here.

From the River Maul to (6) uelirada de Lora is -Ls , the Courfe N.E. Here is a great Break, like that of Lime; and the Coatt for fome Space lies low and that with the Sea, being dindy atho like the Shore. The Coaft here trends away N.E. and S W. Here the Mountains are cover'd with Trees, which is no where feen upon this Coalt northward, till between this P!ace and La Conception.

From Lora the Coaft trends N.E. to Potocaims, dilt. $1+$ Ls. You may anchor fately within the Headland of Potocatine, and all along this Shore, efpecially with a foutherly Wind; but if you run only a quarter of a L within the Cape, you will be liable to terrible Flaws from off the Shore. There is a limall Ifland within, where you may ride fecure in 25 Pa. clean Ground. This Headland of Potocalmo is in Lat. $3+\mathrm{d} . \mathrm{S}$.

From the Cape or Point of Potocalme to the Headhad of Curaoma is is Ls, the Courte fill N.E. berween thele, and about 6 Ls flhort of Cape Chraoma, lies the fmail Port of Salmnas, or the Salt-Ponds, where there is a valt quantity of fine Salr, and many Ships ute the Place to load it here. The an!-choring-place is under a high Rock to the fouthward. The Land is low, and the Sea flat ; and there are feveral Shoals from the Anchormg-places all along to the River Rafol, wheh
ouze : take care to lic to the fouthward of the Point called Herradura on the Continent, and S.E. by S. of the Point of the 1lland (e)niriquina, with which the :'oint Talcagnama forms the Entrance.

Within the Point Taliasnama lies the Port or Harbour of the fame Name, dift. abour: 2 Ls. You may ride chere in $;$ to $4 \frac{1}{2}$ Fa. folt oure ; and you ought to moor N. and S. two litete Points of the 'Pertinfita bearing from you N. by W. upon a Line from cach other, and a Crook called The 1 lorec Maids, N.W.

The whole Bay is a beautiful Place ; it is 2 L.s wide E. and W. and ; Ls decp in, N. and S. moft of it clean Ground: yet there are but 2 good Roads in the whole Bay, one at the S. Point of the Illand -thiriquina in 10 to 12 Fa a Cable's length from the Shore, and which, tho a good Road, is lets frequented than the other, becaufe remote trom the Town: the other at the bottom of the Bay, as is faid, near the Village de Talcaguama, in + to 7 Fa. the hottom foft black oaze.

To come to this Bay, Care mult be taken to avoid the Tail of the Shoal I have juft fipoken of, which ftrecthes out a guarter of a L. E.S.E. from what appears at the loweft Ebb, where there is but ; Fa. Water: To thum it, a Ship drawing near the I.and on the Starboard fide, is to keep a little low uneven Cape at the end of the Bay, open with a little Hill of much the fame height, lying fomewhat farther up the Land; that is, the Cape of Effcra de Talcaguama, with the wettern part of the litetc Hill of $E: / p$ inn $a$ : and if at the fame time the S. Point of (2uiriquina be kept in a line with the W. part of the liland, you are exactly at the cod of that Tail of the Sand; and then you draw near to the Houtes of Talcaguama, till having clofed (2uitriguina, belhind the Point de laHerradura, you may then come to an Anchor under Shelter from the N.Wind. Care is alfo to be raken not to come too near Talcuguana, for fear of a Shoal within a Cable's length of the Shore: This is the only Place of lafety whillt the N. Winds prevanl ; but being entred you may anchor before the Town, N.W. from the Caftle, or which is the fame thing, S.E. from the S. Point of the Ifland ceniriquina, clofing it with the outward Cape of Talcaguama, or before Irequin. Take care to lic a good quarter of a L from the Shore, for fear of the Rocks. There is every where Convenicncy for wooding and watering, and cven for building of Ships. In Summer Boats go cafily a Shore ; in Winter the Cate is quite alter'd.

La Conception is certainly the beft Place of all this Coaft for a Ship to put in at for all things that a Ship's Crew made fick of a long Voyage can want, and for the goodnets of Provifious whichare to be bought there, and the moderate Price they are bought ar.
From this Ifland of the Conception, or Quiriquina, to the Cape Hervadura, or the Hor/hor, is a Ls N.E. and S.W. that is, the Mouth of the Bay is fo wide, the Cape Herradura being the North Point of the Bay. This Paffage lies in S. fo that the N . Wind blows right in to the Bay, but as has been faid. If yougo in this way, you anchor before the Town 4 of a L
for tome Spa like the Sho Here the Mo feen upon th La Conceptio From Lora You may anc all along this you run ouly liable to terri 1 lland withit Ground. T

From the Curroma is bout $\sigma$ Ls fhd $n a r$, or the $S$ Salt, and man choring. place Land is low, from the Allo Shoals you in tail off to fea kecip a goodo mult take cal with all fpeed

From this wifc Sautiago Road within and the Ifland Morro Moren ther alike, vi

Two Ls to Icd Morro de rally made frc Valpariffo, S.W. which b in which calc out running o

After dout pcars the Ctc the Port of $l$ bcing naught

Upon turn Valparilfo, y it feif within muft bc don great Lcdgc but'tis very 1 within a Boat ing it.

On the of they are oftc Road, for the the Point of
for tome Space lics low and that with the Sca, being liudy allio like the Shore The Coalt here trends away NE. and S W. Here the Mountams are cover'd with Trees, which is no where feen upon this Coaf northward, till between this P!ace and La Conception.

From Lorat the Coaft trends N.E. to Potocaim, dift. it I.s. You may anchor fafely within the Headland of $\cdot P$ otocalint , and all along this Shore, ecfeccially with a foutherly Wind; bue if you run ouly a quarter of a $L$ within the Cape, you wili be liable to terrible Flaws from off the Shore. There is a finall Illand within, where you may ride fecure in 25 Fa . clan Ground. This Headland of Potocalmo is in Lar. $3+$ d. S.

From the Cape or Point of 'Potocalm', to the Headland of Curama is is Ls, the Courte fill N.E. betwecn thele, and dbout 6 Ls flort of Cape Curraoma, lics the fimall Port of Salhnas, or the Salt. $\%$ Ponds, where there is a vaft quantity of fine Salt, and many Ships ule the Place to load it here. The anchoring place is mider a high Rock to the fouthward. The L.and is low, and the Sca flat ; and there are feveral Shoals from the Anchormg. places all along to the River Rapel, wheh Shoals you mult be very careful to avoid. Several of them tail of to feaward above two Muskethor, fo that you mult kce ; a good Offing on that fide alfo, to go without them. You mult take care, it you ride at the Saluas, to ger under Sail with all fpeed, if the Wind fhould come abour northerly.
From this Cape Curaoma to Peucy to del Valpariffo, otherwile Santiago, is 2 Ls, the Courfe W.N.W. Here is a good Road within the Point for Ships of any Burden. This Point. and the Iflands of Coquimbo, the Headland of Cop:apo, and Morro Moreno, or the Brown Point, all bear with onc another alike, viz. N.E. and S.W.

Two Lss to the fouthward of Cape Ctimatma lics a Point called Morro delobifpo, or the Bilhops-Headland: this is gencrally made from the Sca, in order to get to the Windward of Valpariffo, to the end that the flrong Winds from the S. and S.W. which blow often here, may not put Ships befide the Porr, in which cafe it would be hard to recorer their Latitude, without running out too far to Sca.

After doubling Cape Curaoma, 2 Ls to the N.E. by F. appears the Creck of Laguanilla, which with the Cape makes the Port of Valparifo ; yet no Ships auchor here, the Bottom bcing naught.

Upon turning this Poiut, in order to enter the Harbour of Valpariffo, you mult range clofe along a Shoal, which thews it feif within about halfa Cable's length of the Shore: This muft be done in order to get to windward. That Sionll is a great Ledge of Rocks, whercof one part hes above Water. but'tis very tafe ; for the $S p$ ani/h, Ships have been fecato tide within a Boats length of it in calm Weather, without touching it.

On the other hand, when Ships keep off too fur from it. they are often obliged to make teveral Trips to receser the Road, for the Anchoring-place is hish up the Ruver: bring the Point of Valpariflo to bear N.E. by is from gol, the I/ bute

Hhetc Dittoy W.S.W. and Capi Cancon N. by E. and you hase then the beft of the Anchoring.place, being in 27 Fa. ercy oasy Ground, and fecurd from all Winds.
N: B3. If you talute the Fort with ${ }_{7}$ Guns, the proud Spanith haughtily anfivers you with one, or perhaps nouc ar all.
Abundanec of Spanifl, Coafters ufe this Port to load Corn inr Ciathon and Pamama, io that the Harbour is well frequented, and you may have Pilots here for almoft any Port on the Couth, efpecially to the northward. Thofe Ships generally run in to ciole to the Town, that they arke taft with their Cables on Slow; they are generally made taft to Piles, or gratat Stones with Rings in them; and yet tho fo near the Land. they have 8 to 10 Fa. Water.

This way of making falt afhore is very good here, becaufe every Daxj during the Summer Months, the Breeres come to regularly about Aloon from the S. and S.W. and blow fo ftrong, that no Anchor will hold.

However, Care mult be taken alfo of a Shoal which lies Within a Cable's length of the Shore, near the Battery called the $/ /$ /hitc Caftle: On this Shoal there is not above 13 or $1+$ Foot at low Tide, and the Sca rifes upon the Flood but 6 or 7 Foor ar moft : In all other refpects the Bay is late, and Ships may turn it up or down in from 8 to so Fa. and may ancho: cevery where; only take care, in turning to the eaftward towards the Siete Hermanas, or Seven Siffers, not to come nearer the Shore than two Cables length and half, oppofite to a limall running Brook, crots'd by a broad reddilh Highway: In that Place there is a Shoal, on which there is no more than $2 \frac{1}{2} \mathrm{Fa}$.

Another Caution is neceflary for this Road, namely, that tho Ships gencrally ride in the Nook of it, which is before the Battery of Caffitls) Blanco, and where they he chicfly for the Convenience of Trade, as allo for Security againft Pyrates and Rovers, yet 'tis a bad Road in Winter, becaule the Winter N. Winds blow right in, and make fuch a Sea that Ships are often forcida-?hore m lipite of all their Moorings Head and Stern. It is truc, the S. Wiods are no lefs violcut in Summer, but then they comic over Land, and fo make no Sca; and if they caufe a Ship to diace, they have nothing to do but to put atore it, and go out to Sca, and in the Evening the Wind is always down agan.
This bay is certainly the moff frequented of any Port of the Whole Coant of C'bili, and that by Ships of good Burden befides Coalters; and for this reaton the Fortifications are to much increaled, for within thefe 30 years they have built the great Fortects at the Foot of the Mountain to fecure the Road.
The City of St. .7ago, in Emglifh St. \%ames, the Capital of the whole Kingdom of Chilt, lies up the Country, dift. from lalparilfo $=8$ Ls fays Frezier, and Herrera lays $i_{4}$ Ls: the former Iecmsto be right. The River is not navigable up to the City, but all the Bufnefs is tranlacted at Valparailfo, which is the Sca-Port to St. "/aso.

Many Shups come to this Port to lade Hemp, which is browght down the Rivers on ftrange Fiozes made of Bladders

## oiss for the Coafts of Chili and Peru.

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to load Corn 11 frequented, Port on the ips gencrally ift with their to Piles, or fo near tire
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d which lics 3attery called ove 13 or $1+$ od but 6 or 7 afe, and Ships d may anchoi tward towards me nearer the to a timall runIn that Place $2 \frac{1}{2} \mathrm{Fa}$.
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ny Port of the od Burden beications are to bave buit the cure the Road. the Capital of try, dift. from ys 14 Ls : the yable up to the ailfo, which is
mp, which is de of Bladders
and anchor there. From 'Papuda to Port de la Lija is 4 Ls, and thence to \%ort Governador; Ls, the Courle N.W. 'tis a cleasi Harbour, and good Riding, the Ships being iccurcd by a fimall Inland in the Miouth of the Harbour.
N. B. Port Gourruador lies in Lat. $\boldsymbol{z}_{2} \mathrm{~d} .12 \mathrm{~m}$.

From 'Point Governador to Limari is juft 20 Ls, being from $j 2 \mathrm{~d} .12 \mathrm{~m}$. to $\mathrm{j}_{1 \mathrm{~d}} .10 \mathrm{~m}$. between them is a wild Coaft, all fnowy Mountains, and no Harbour, except C'boapa, dift. 10 Ls, which is a fmall Harbour of no Importance.

From Limari to Tanguey is juft o L.s; this laft is in Lat. jod. $30 \mathrm{~m} . \mathrm{S}$. In the Road of Tanguey there is a Headland oppofite to a fimall River, where there is good watering; all over the Bay there is good anchoring, and clean holding Ground

From this Bay to the Point fouthward of Coquimbo is 7 Ls . This Point is called Herradura allo, or the Hor/hoe, as feveral others on this Coant are; and the Port of Coquimbo is alfo called Sevena. The Courfic trom Longuey hither lies duc N. and $S$.
The Bay of Longuey is by fome called Tonguey, and by Monficur Frezicr Tonguay; but it is certainly known by a Hill called Sierra del Giamaquero, and by a low Pount ruming out called Lengua de Vacca, the Cozus or Neats Tongue, which clofes the B.y to the weftward.

The Coaft, tho indiffercutly high, and to be feen at 25 to $\mathfrak{o l s}$ off at Sea. yet makes ar firf as if it was all drowned; the Mountains of the Cordilleras, which appear over it, being always covcr'd with Snow.

When you firft make the Bay of Coquimbo from the fouthward, 'tis generally at 8 Ls dilt. In this Courfe you mult keep up with the Land, to fee the Entrance into the Bay, and to get to windward, the S. and S.W. Winds always prevailing on the Coaft, except about 2 or 3 Months in the ycar, which they call Wiuter, when the Wiads hang about the N. and N.W. Points.

Short of the Entrance into this Bay is the Hor/foe Point mentiond above, being the Mouth of a hitte Creck about 2 Cables length over, and where Boars go in to take frech Water.

To the Leeward fide appear ; or ${ }_{4}$ Rocks; the outmolt, which is the largeft, is called Pavaro, or Pajaro Nimmo, and is 2 :miles N.W. by N. from the fouthermoft or Starboard P'oint of the Main, which clofes the Port of Coquimbo, and is call'd by the Spasiards Punta de Turtugg.

To the fouthward of the Rock is a fmaller Illand, between which and the Main is a good Chamel, having 17 Fa. Water, tho very narrow. Some Ships have gone thro' this way, but there can be no need of it, the Mouth of the Bay bemg : Ls wide, clcan and without Danger.

The Bay goes in S.E. the louthermoft Point is called Thuta de Tortuga, mention'd above, which the Shaps keep as clofe to as they can for the reafons before, $u z$. that it is to wundward, and if they go large off, it is not ealy to get into the Road, which is under the Lee of the Cape. The 2 Mands mention'd above of Paxaro de Nimno are under this Pome to the weftward; and therefore 'tis that the Shus venure bernten
 is true, the S. Winds are no lefs violent in Summer, but then they come over Land, and to make no Sca; and if they caufe a Ship to drive, they have nothing to do but to put afore it, and go out to Sca, and in the Evening the Wind is always down agau.

This bay is certainly the moft frequented of any Port of the whole Coait of Chili, and that by Ships of good Burden befides Coulters; and for this realon the Fortifications are to much increated, for within thele 30 years they have built the great Forteles at the Foot of the Mountain to fecure the Road.

The City of St. Fago, in Einglifh St. Fames, the Capital of the whole Kingdom of Chili, lies up the Country, dift. from 1 alparilo $=8$ Ls lays Frezier, and Horrara lays $1+$ L.s: the former fecms to be right. The River is not navigable up to the City, but all the Bufincts is tranfacted at $V$ alparailfo. which is the Sca-Port to St. 'farn.

Many Shus come to this Port to lade Hemp, which is brought down the Rivers on Itrange Flotes made of Bladders and jkins, needlels to defcribe.
N. by E. from ${ }^{\prime}$ 'alparai/fo, and partly within the Bay, is the Penta de Conception, which opens another fraall Bay, into which the River Aconcagua cmptics it Ielf: This River is called allo the River Chili,' as they tell us, it was formerly the $N$. Boundary of the Kingdom of Chsli; but is not fo now. Within this River lies the Town of Conception, where there is a good Road on the Starboard fide of the River.

Without this hetle Bay the Coaft ftretches to the N.W. to ano.her l'unta de la Hervadura, which Headland makes the S. Point of the Bay of couintero. The Bay of (e) untero is 2 L. N. from the River Chilz; and the Entrance into Chili is 2 Ls, Which with the Rounding the Entrance into Conception makes the whole 5 Ls to $\mathcal{G}$ unterero.

In this Run you have three plain Strands, in the Midway of Which comes in the River of Murga Morga, not navigable, but very good to water in. In the River Conception there lies a great Shoal, which you will fee by the Breach of the Sea upon it. If you would go in there, you muft range with the Point, and run in between that and the Shoal. The Town lics on the S. Shore of the River. From the Port of Conception to Port lalparillo, is called $1 \circ$ Ls, but it cannot be to much.

In the Bay of Quintero there lie feycral Shoals near the S. Point. From thote Shoals to the Harbour of $\mathcal{O}^{2}$ untero it is 2 I.s: the Harbour is decp, and there is good riding with a toutherly Wind; but the northerly Winds blow right in, and make a great Sca. Molt of the Shoals are to befeen, being dry at low Water; they lie near the S. Point, but there is a fair Chanucl between, having is Fa. Water.

From the Shoals of (e)tutero the Coalt thoots out due N. to 'Pipudu, dift. ; Ls: The Wa'er is very deep in Papuda, but good holding Ground, and the Entrance is very lafe. In Port Zeita near the Pout there is a Shoal with but 2 Fa. Witer upon $1 t$; youmult give it agood Birth, and run within iuto ; Fa.
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r, but then f they caufe put afore it, lways down

- Port of the Burden betions are to e built the e the Road. c Capital of r, dift. from ${ }_{14}$ Ls : the le up to the fo, which is

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c N.W. to ad makes the 2untero is 2 ${ }^{2}$ Chali is 2 - Conception c Midway of ot navigable, " there lies a f the Sca upge with the
The Town of Conception be to much. Is near the $S$. uintero it is 2 riding with a right in, and ceen, being at there is a
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Cables length over, and where Boats go in to take frelh Water.
To the Leeward fide appear ; or + Rocks; the outmott, which is the largeft, is called P'aiaro, or "'ajono Ninno, and is 2 miles N.W. by N. from the louthermoft or Starboard l'omt of the Main, which clofes the Port of Coguimbo, and is call'd by the Spaniards P'unta de Turtug.d.

To the fouthward of the Rock is a fimaller Inland, beeween which and the Main is a good Chamel, having 17 Fa. Water, tho very narrow. Some Ships have gone thro' this way, but there can be no need of it, the Mouth of the Bay bemg $2: \frac{1}{2}$ Ls wide, clean and without Danger.

The Bay goes in S.E. the fouthermoft Point is called Punta de Tortasa, mention'd above, which the Ships kecp as clole to as they can for the reatons before, ziz. that it is to windward, and if they go large off, it is not caly to get into the Road, which is under the Lee of the Cape. The 2 Illands mention'd above of 'Paxaro de Nime are under the lome to the weftward; and therefore 'tis that the Shups venture berween them and the Main, that they may be cnough to Windward to make into the Road of Tortugas.

It is true, the Rocks are clean, and feep too; fo that Ships run within 2 Boats length of them ; and they ftrive to do it, that they may the cafier gain the Road, as above, whith is called the Port. Here the Ships ride in 6 to 10 Fa. the bottom black Sand, near a Rock called alto the Tortugas, which is about 2 Fa. long, and about i Fa. above Water, flap'd like a Tortoife, and from which it takes the Name. Ships are here fhelecr'd from all Winds, by clofing the Pruta de Tortuga with the diftant Point oppofite, called the Point du Noort; io that the Land is feen on all fides, and the Swell or Rolling of the Sea is check'd and kept off. The Road indeed is not large here, and only 20 to 30 Ships can take the Benefit of its Shetter, tho the Bay is large enough too, and there is Water enough every where, and the Bottom good; but the Ships do not ride fo caly or fo fafe.

If in coming out of this Bay you fhould happen to be becalm'd, you muft be fure not to come to an Anchor near the faid Rock Paxaro Ninno in 401045 Fa. becaute the Bottom is foul and rocky, and will cur your Cables, and you will not be able to weigh your Anchor by your Buoy Ropes.

The Solide, a Frencls Ship of 50 Guns, luit 2 Anchors there in that manner, Anno 1712.

The Port is not only convenient for Ships riding at Anchor near the Shore as ftill as in a Baton; but in cale of uced Ships of 200 Tun may be careen'd on the Tortuga Rock, there being 2 Fa. clofe by it at the loweft Ebb.

Yet with all thofe Conveniencies fonething is wanting, here being neither Wood nor Water; the Water is brackith, and the Wood only Bufhes.

The Town lies oppofite to the Road, but there is no Landing uearer than 2 Ls off : the Surge of the Sea going; to high at the Town, that no Boats can bear it; the Landing place is :

## Sailing Directions for the Coaft.

I.s from the Town S.S.E. where Boats go in eafy, and you mull walk to the Town by Land.
N.W. from the Bay of Coquimbo, and dift. from the Punta de Tortugas 7 to 8 Ls, are a Cluiter of fmall Iflands called Les Pajaros, or the Iflands of Birds, the Courte N.N.W. and S.S.E. You flould be careful to keep off withour thefe Iflands, becaufe the Current which always fets to the northward is apt to drive Ships in between thote Iflands and the Main, that is, from beyond the Point de Theatins, which is the northernoft Land of the Bay of Coquimbo. Thele Iflands are 6 or 7 in number, and ieveral Spani/b Ships have perifi'd upon them, bengy hors'd on them by the faid Currents: for which reafon, when yougo from the South, you mult be careful to runfome L.s W.N.W. and in time too, that you may get to feavard of them, for the spanilb, Pilots fhun them as they would a Shoal in a Calm. They are the more dangerous allio, becaute the Tides upon the Coaft are not at all regular, and muft be knowia rather by Experience than by the exactef Obfervation.

Four Ls N. from thefe Iflands is the Illand of Chorors; and 5 I.s farther, the Courfe lying N. by W. is the Port of Guafio. Between them is the Creek, and an Illand before it calld Totoral: It lies midway between a certaiu high Cape, with a Mountain upon it, call'd Sierra 'Prieto, and a low Point, which is the fouthermoft Land of the Salt Bay.

From the Bay of Coquimbo to Guafio is 15 Ls , that is, 8 to the I/fands of Birds, and 7 beyond, to the Bay. Some Accounts make the diftance more by ${ }_{4}$ Ls; but we have feveral Charts, which confirm our Account.

The Port of Gruafio forms a good Harbour, and you have fafe anchoring in 18 to 20 Fa. very near the Land. It is not a much frequented Port, but 'tis capable of receiving great Ships; and there is a very good watering place. Port Giuaf. co is in Lat. 28 d . The River lying to the N . of the Town $=1 . \mathrm{s}$.
From Guafio due N. lies Cape Tonteral: The Names are fo alike, that fome Accounts mittake this, which is a Cape, for Totoral, mentiond above, which is a Creck with au Ifland: but the difference is cvident, the one is $\mathrm{I}_{12} \mathrm{Ls}$ to the S . of Ginefico, and the other is Ls to the N . of it.
To go iuto this Port of Guafoo, you muft anchor right againft the River, under a fmall low Illand: The Point of the Main is cover'd with 7 or 8 Rocks, which lie out of the Water. On the Top of the Point there is a rough Sand hill, where yous will iec two or three meie dry Rocks; there you may anchor, bringing that Poi,: :o ivis N. by W. from you.

The Harbour of Guafco is weil fecured from all Winds between the E. and S.E. but too open to the N. and N.W. The Rocks mention'd above lie at the windward Point, and are a very good Sccurity to the Road. The Hill of Giaafoo is very laigh and thick, and riles with two Pico's, the northermoft is the higheft; they are feen many Ls to Sca, and by them you make the Port, for there are no other Hills like them on the coilt.

From Cape Tontoral to Copiapo is 25 Ls ; the Courfe ftill lics N . or at mott N . by W. Cape Toutoral is fituate in Lat.

Fa. W dingt the $S$ and to have
N.
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the $P$ unta de is called Les V. and S.S.E. - Inands, be. ard is apt to Iain, that is, northermoft c 6 or 7 in upon them, which reafon, to run fonc o fcaward of Id a Shoal in ue the Tides c known ram.

Cboros; and rt of Guafio. t calld Toto ape, with a low Point,

Ls, that is, Bay. Some chave feve-
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## all Winds bc-

 N.W. The t , and are a mafco is very orthermoft is y them you then on theCourfe ftill cuate in Lat.

Fa. Water in it ; and the Engliflbman run a great Ruigue in riding there, for had a N.Windfiprung up whicha blows right upon the Shore, he muft have run out inmediately to the wcitward, and to have put into Copiapo under the L.ce of the Ifland, ur have becn forecd on Shore and loft.
N.E. by E. from this Road lics the Port of Caldera dift. a Ls, 'Tis divided from the Bay de Inglefics, by two Points oi Land making a little Sound; between which the Channcl goes in E. by S. Herc is a good Road behind a rocky Point : Yon muft coaft the Starboard or S. Shore within Piftol thor, that you may be fice to keep to windward; the Road lies on the tame Shore, where you have io Fa. good Ground and lectire. Here Ships often lade and unlade for the Town of Coprapo; you ride S.E. by E. from the moft advanced Point on the $S$. fide, the low N. Point bcaring N. by E. from you dift. 3 Ls. Tho the northerly Winds do not blow in but thwart, and that they are not fo ftrong here as in a more foutherly Climate, yet when thefic Winds blow, the Sea goes very high in the Road, and that fo as to make Ships ride very uncaty.

This Road would be much more frequented, but that both Wood and Water are exceeding tearce and difficult to be had.

Tho this feems to be the chicf Port for the Town of Copiapo, yet it is at leaft ${ }_{1}$ Ls E. into the Country, over the Mountains, and 20 L.s by the ordinary Road, which follows the Courlic of the River: From the Road of Cialdero to the Mouth of the River of Copiapo is 5 Ls by the Coaft duc N. and $S$. accounting from the Offing of the Road.
From Copiapo to Coquimbo is 100 Ls within Land, the Country wafte and delart without Town or Villages; no wonder then that the Coaft is withour Harbour aud Shipping. This is that prodigious Ridge of Monntains which part Cbile from Perru, and which lic in Lat. 2y to 25 d .
But the Sca Coalt is not fo wild and defolate as the Country within Land. Irom Copiapo to the Bay calld Port Gerzeral is 12 Ls: Here is a clean Strand and very good anchoring all the way, the Courle N. by E. there is a finall Hiland in the Mourh of the Bay, which adds to the Sceurity of the Ships which ride there, becaule it breaks off the force of the N.W. Wmis, which blow here very flrong: The Road is very good, and the Ground a hard Sand; but you will get no good Water there, which is the Cate in many other good Harbours on this Coalt.
It is much the lame at Tuncal, or "funcal, which lies firther N. abous, Ls: The Harbour is only good with the Wind ats. but there is no frell Water to be got, eren for Money, auy more than at PPort Bettas, 6 Ls filll tarther N. The Marks for the Harbour of Bettas are a Spot of white Sand, and in the Middle of it a Spor of black Earth : The Entrance mot the Harbour lics exactly in Lat. $2 ; \mathrm{d}$. S.

The nex: Port or !lace of Confequence to this is Baia de Neuftra Semm.i, of Our Lia's's Bay. Lrom Copapo to this Bay de Netifita Semoora is jo Ls, the Courle all the way N. by E. and S. by W. Herc is another Rio Salado, or Sailt River ; and indeed frefl Water is very rarely to be had in any of thele Harbours. The Bay it felf is but indifferent riding, the N.W. Winds blowing right in ; and as the Land is high and mountainous along the Shore, it fends down frong Geitls
for Totoral, mention'd above, which is a Creek with au Inand: but the difference is evident, the one is 12 Ls to the S. of Gialafico, and the other is Ls to the N. of it.

To go into this Port of Guafoo, you muft anchor right againt the River, under a fmall low Inland: The Point of the Main is cover'd with 7 or 8 Rocks, which lie out of the Water. On the Top of the Point there is a rough Sand-hill, where you will fee two or three more dry Rocks; there you may anchor, bringing that Point to bear N. by W. from you.

The Harbour of Cruafco is well fecured from all Winds between the E. and S.E. but too open to the N. and N.W. The Rocks mention'd above lie at the windward Point, and are a very good Sccurity to the Road. The Hill of Guafco is very high and thick, and rifes with two Pico's, the northermoft is the highent; they are leen many Ls to Sca, and by them you make the Port, for there are no other Hills like them on the Coalt.

From Cape Tontoral to Copiapo is 25 Ls; the Courfe Itill lies N . or at moft N . by W. Cape Tontoral is fituate in Lat. $=7 \mathrm{~d} .30 \mathrm{~m}$.

Between them lics the Baia Salada, or Salina, in Englifh, the Salt Bay, dilt. from the Cape 10 Ls. There is a good Road in that Bay, and much frequented by coafting Veffels, as well for loading Salt, as for other Bufinefs; the anchoring Ground is to the northward; the looint on the oppofite Shore bearing S.W. from you, as you ride. 'Tis tolerable fafe lying here with the Winds foutherly, but the N. Winds blow right in, fo that you muft be always in a readinets to fail and put out to Sea, or you will be in danger of going a-floore. Here is good frefh Water to be had, and very convenient near the Road.

From this Raia Salada to Copiapo is ro Ls, the Courfe N. by E. The Coalt between is all late with good anchorage, and ieveral little Bays with good thelter, as well againft northerly as foutherly Winds; the Mountain of Copiapo, which forms a Head-land, and is call'd Morro de Copiapo, makes at Sca like a great Illand, fomewhat like the Point of St. Helena ir Peru. On the S. fide, about a L off Shore, there are two limall lilands, and under them a very good Road. A little to the N. of the Town lies the River of the fame Name, which comes in open with thofe Illands. Oppofite to this River to feaward, there is a dangerous Shoal ftrctehing E. and W. at a good diftance ; and as it lies due W. from the Mouth of the River, you muft ftand out from it to the N.W. till you open the Entrance by the Ifland, under which you mult come to an anchor. You run in S.E. by S. and S.E. and anchor under the Lee of the N. Point, well fecured as above.

The I'oint or Head-land call'd Morro de Copiapo lies N. from this Illand, dift. about 2 Ls. Behind the Head-land is a little Buy, with a Crack at the S. cnd of it, call'd Puerto del Inglefis, or the Port of the Englifhnen ; call'd fo, it feems, bccaute an Iingli/h, Pirate anchored there formerly, and rode in it fome time, watching for Purchalc. There is from 30 to 50
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hor right aoint of the of the Wa-Sand-hill, ocks ; there by W. from

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Englifh, the ood Road in , as well for iround is to searing S.W. g here with tin , fo that t to Sea, or s good frcfh id.
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 of the Bay, which adds to the Sccurity of the Ships which ride there, becaule it breaks off the force of the N.W. Winds, which blow here very ftrong: The Road is very good, and the Ground a hard Sand; but you will get no good Water there, which is the Cafe in many other good Harbours on this Coaft.

It is much the fame at Tuncal, or funcal, which lies farther N. about 5 Ls: The Harbour is only good with the Wind at $S . W$. but there is no frefh Water to be got, ceen for Money, any more than ar Port Bettas, 6 Ls ftill farther N. The Marks for the Harbour of Bettas are a Spot of white Sand; and in the Middle of it a Spot of black Earth : The Entrance into the Harbour lics exactly in Lat. 25 d . S.

The nexi Port or Place of Confequence to this is Bain de Neuffra Senner:i, or Our Lati's Bay. From Copiapo to this Bay de Ncuftra Sennora is 30 Ls , the Courfe all the way N. by E. and Sa by W. Here is another Rio Salado, or Salt River ; and indeed frefl Water is very rarely to be had in any of thele Harbours. The Bay it felf is but indifferent riding, the N.W. Winds blowing right in ; and as the Land is high and mountainous along the Shore, it fends down ftrong Gults and Squals of Wind. which are very dangerous to Sailors.

From hence to Cape de George is $20 \mathrm{Ls}_{\text {; }}$ the Land alfo mountainous, the Courle N.N.E. and S.S.W. the Coaft of Perus falling off here a little to the E. You may anchor under Morro de George in 25 Fa . all lecure, no Dangers but what are vifible. The Bay is in Lat. 24 d . 30 m . If it be clear Weather, you may fee Cape Morreno from the Mountains over the Bay of Our Lady: You fhould lie at anchor S. of the Rock, about a Mile from the Shore.

From Cape George the Courfe lies N.E. to Cape Morrena; juft under the fouthern Tropick, being it Lat. 23 d .45 m. S. dift. ${ }_{5}$ Ls. Between the Capes there is a great Bay which invites a Stranger in ; but if the Wind comes about to the S.E. 'tis hard to get out, and very dangerous, becaufe it blows righe. on the Shore, and makes a great Sca in the Road.

From the N. Point of the Bay of Morrenas to Meff:llones, or Mufile Bay, is \& Ls, the Courfe N. by E. and S.by W. Cape Morrcna is high Land. On the N.E. fide is a good Road, near the fmall Ifland which lies before it. Here is allo a very convenient Harbour, tho exceeding narrow, where you may careen a good Ship; however, give the Cape what Birth you can, for here are fometimes terrible Flaws of Wind, which come off from the Mountains within the Land.

From the Bay of Meffillones to Atacama is 5 Ls , the Confe between lies N. by E. and S. by W. There is a Hill like a Sugar-loaf on the Point, and on the N. fide another fome. what lefs. TheBay of Meffillones is deep, the Anchoring place to the caftward; but the Entrance $N$ and $S$. On the S. nide it is deep, and you have no Bottom, but at the Entrance or An-choring-place it is moderate, and youmay ride in is Fis. Witces clean Ground, and well fecured from moft Winds. It is to be oblerved, that the Seamen call all the Opening from Cape "" Cape the Baia do Acatama, or Altacama: fo that the Mufcte * X x

Pory is a Bay within a Bay, being a finall Harbour at the Bottom of the other: But this makes the latter later ridiug, for in the great Bay the W. and N.W. Winds blow right in, and bring in a tumbling Sca , fo that you might be in danger of foundering at an Anchor. From the N. Point of the Bay of Atacama, as thus cxtended, to the Morro Morcina S. is 20 Ls, bcing jult from Lar. 22 d . to Lat. 23 d . S.
N.B. The Town of Altacama, from whence this Bay takes its Name. is within the land many Ls; but the Porr, which by mittake we call Atacama, is properly callid Cobija, and is known to the Spantards by that Name.
The Harbour and Bay, as above. is known by the Morro Alon wa, wheh begins io Ls to windward, that is, to the fouthward, and rifes gradually till it comes drectly over the Entrance into the Creck or Harbour of Cobija, and from thence fioups again to the northward; fo that the Pike of the Hill is your Mark at Sca to make the Port by, it being the higheft L.and of all the Coatt.

The Harbour of Cobija lics about ${ }^{3}$ quarters of a $\mathbf{L}$ in, very fecure: "Tis frequented by European Ships for private Trade, and by Sparith Ships, but chicilly for carrying the Treature Which is brought hither from the Mines at Guate, Lipes, \&ic. which lic nearcht to it.

From hence to Paguifa, or Paquifa, is 10 I.s N. that is, to the Illands calld the Alrodonales Ls, (where you may get freth Watcr, but at Cobijait is brackilh and unwholctom ;) and from the Algodonales to Paguifa 2 Ls.

Duc N. from Papuifia, dift. s Ls, lics the Rio de Lora, or de Loa, in Lat. $i \mathrm{~d}$. 40 m . Here alfo you may have good freth Water, tho with tome difficulty; it lies belind a Point.

If you would water at $P$ Pagetfi, you thould anchor before a Hcad-land which fhoots out N.W. into a Point, and is call'd Magues or 'faucy, from whence the Port is call'd by the Spaus.ards. Haguey de Paguifin, or the Rills of Water at Pagui(it. The Point is known by large white Spots on the Precipice, or sifing of the Land; there you will fee a high large Free befure the \%athey. or Watering-place ; that Point is the higheft Land on that part of the Coalt. Over it is a Hill yet hagher, which makes at Sea like three or four Hills far atimder, and is over-grown with Shurbs and Buthes looking alwhe greca: The Water hare is bad, the Coant very rough aiditcep, fo that you mult kcep off at a good diftance : You have allo no good Soundings but at 2 Ls from the Shore, and no Bottom.

From Cobija in the Bay of Atacama to the Hagucy de Paquifin, or the I'atcring-Place of 'Papuifia, is is Ls, all a high Coalt. moumtainous and rocky; the Land trending N.N.E. and SS.W. tho foon after going off more to N.E. by N. and then again to duc N .
From the Rio de Lora the Land trends due N. to Pica, paffing in the Midway the Illand of Ciomane, the Land high and dicep, and the dift. from Lore to Picia 12 Is. On the

## Direstions for the Coafts of Chili and Peru.

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10 I.s $\mathbf{N}$. that is, here you may get iwholetom ;) and

Rio de Lora, or 1 may have good s behind a Point. Ild anchor before a int, and is call'd call'd by the Spi. W.itcrat Paguits on the Precifice a high large ; that point is Over it is a Hill or four Hills far Buthes looking alCoaft very rough od diftance : You om the Shore, and
ce Hagucy de $\mathcal{P a}_{\text {a }}$ $s_{15}$ Ls, alla high ending N.N.E. and E. by N . and then
duc N. to Pica, o, the Land high a $1=1 \mathrm{~s}$. On the
run in with the Shore by thote Marks, no other Land making like it.

Thefe broken Lands begm at Tarapaca, from whence to Pifagua is 6 Ls N and S . From $P$ i/agua to the next Gapor Opening at Camarones is 8 I.s. All the Coaft is high Land. and lics $N$. and S. The broken Gap of PII/agua makes at Sca like a Bay, and when bearing E. from you, fecms to be clofed up with the Gap of Camarones.
From Camarones the Land continues rocky, and runs away N. or N. by W. to Viafor O Colpa, ditt. 7L. This is the firit of the broken Hills to windward: Thofe broken Lands lie about ${ }_{5}$ Ls in length; they have to the N. fide almoft to the Shore, red Hillocks and lome Ruges, the later white as Chalk. Between thefe is the Head-lend of Arequipa, call'd by our Sailors Iquique.

The Courfe lies N by W. from thele Gaps on the Shore to Port Arica, which lies in Lat. 19 d . it lies in a kind of a Bay. Bring the Cape of Arica, which is high fleep Land with white Spots in it, in fight with the Land to windward of Cape de Siama and Guiaca, you are then directly off of the Bay, or rather a little entred into ir. If you would anchor there, obferve a timall illand, which you thall fee under Shore, and bring then on with the Ware-houles which lie allo near the Strand; there you thall have 8 to 10 Fa. Water where you pleate, and may anchor at diferetion. You mult be fure when you ride here, to moor with one Anchor right a-ftern, becautc the Land-Breczes blow fo ftrong, that you will be clle in danger of tailing a-flore.

Coming from the Sca, you will know this Land by the Ridges of Rocks which come from the Mountains, and look like two Volcano's ; they appear white: Bring them to bear N.W. from you, then you are to windward of the Port ; but if they bear to the S.E. you are then to the L.eeward, and will fee two other Hills as white as if they were covered with Snow.

Upon the lame Coaft, and before you come to Arica, is the Cape, or Point, or Brcak, calld Ciamerones, mention'd already. When you come within about a L of this Break. you will fee rhe Head-land of drica begin to flew it telf; it makes as a dutance like an lland, becaute it is much lower than the windward part of the Coalt; but when you are within 3 or 4 Ls of it, you will fee another little Ifland very Itecp and high, which hes right before it, and looks only like a Rock flandingout of the Sea: By this you will intillibly know the Coalt, becautc 'tis all a low Coalt beyond it. The Entrance into the Port is in 18 d .20 m .

This Head-land, on that fide next the Sea, is all white with the Dung of Cormorants, which are there in grear Numbers. and which Dung is to valuable, that Shups come to that Road to load with it: Hence the llland adjoinng is calld Cameron, but its right Name is Cinano.

Enterng the Road of arica, Ships mav. Coant the In and
let mggy, mmen makes at Sca hike threc or four Hills far atimder, and is over-grown with Shurbs and Buhacs looking al. wiss grece: The Water here is bod, the Coaft very rough anditep, fo that you mult kecp off at a good diftance : You have alio no good Soundings but at 2 Ls trom the Shore, and no Bottom.

From Cobija in the Bay of Atacama to the Hagucy de Pa( Enifin, or the IV atcring-P'bace of Papuifa, is is L.s, all a high Coalt. mountainous and rocky; the Land trending N.N.E. and S S.W. tho foon after going off more to N.E. by N and then again to due N .

From the Ris de Lora the Land trends duc N. to Pica, palfing in the Midway the Illand of Ciomano, the Land high and tteep, and the dift. from Lora to Pica 12 Ls. On the Shore there are feveral Ridges of Rocks; 'tis a bold Coaft, and you may anchor under the white Craegs which appear juft upon the Shore: Where you fee thete Craggs lower and flatter than the rett of the Land, there you may obferve the Harbour goes in; and you may know where the Mouth of the River lies by the fame Mark. The beft of the Road is about a quarter of a Mile to windward of the Opening, near a fimall Pared of Rocks which flatecr you from the northerly Winds and the Breach of the Sea, which goes high upon the Shore : When you come to an anchor, let thole Rocks lic right a-head of you.

In paling from Cobije towards the Rio de Lora, you will fec a limall Illand call'd Pavilloon, becaute it looks like a Teur, the upper part black, the lower white. Behind the Illand on the Main is a Creck, where Boats go infor frefh Water, which is ftill very fearec on all this Coalt.
N. from the Illand Pavillion is the Head-land of Tarafaca, or, as our Scamen corruptly call it, Can apoucha, dift. from $1 /$ ica 5 Ls, the Courte due N. The Cape is very high, but under the Pitch of it is the Ifland Iquigue ; this Place goes in like two Harbours, over which the Land being flat without and hilly within, it makes at Sca like a Spaniard's Hat, which way toever you come towards it: Under the Shore there lics a timall hland: The Coalt is bold, and you may anchor almott any where in moderate Weather; youmay alio anchor within the Ifland in 7 Fa. well fecured trom northerly or foutherly Winds.

From the Morro Tarapacia to Arica the Coaft trendsN.N.W. dift. from rhe River Micacos $=5 \mathrm{Ls}$. The Port of Arica being exactly under lat. 19 d . and the other in 20 d .15 m . The land is all high and mountainous upon the Coaft: As you approach this Coaft, you will tee threc decp Gaps in the Hills next the Shore, where the L.and appears thro' in black Spors, and at every one of thole Gaps comes in a River.

If you come out of the Sca. and have not had a good Obfertarion, or if you have been horded up to the northward by the Currents, as otten happens on thas Coalt, youmay boldly
$r$ tour Hills far thes looking alif very rough diftance: You the Shore, and

Hagucy de $\mathcal{P a}_{\text {a }}$ 5 L.s, all a high ling N.N.E. and by N . and then
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t trendsN.N.W. of Avicia bcing 1. 15 ml . The Coaft : As you pss in the Hills in black Spots, r.
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you will lee the Head-land of slica begin to flew it Ielf; it makes at a diftance like an lland, becaule it is much lower than the windward part of the Coalt; but when you are within ; or 4 L.s of it, you will fec another little Illand very theep and high, which hes right before it, and looks only like a Rock ftanding out of the Sca: By this you will infallibly know the Coaft, becaule 'tis all a low Coalt beyond it. The Eutrace into the Port is in 18 d .20 m .

This Head-land, on that fide next the Sca , is all white with the Dung of Cormorants, which are there in great Numbers, and which Dung is fo valuable, that Shups come to thar Road to load with it: Hence the lland adjoining is calld Camaron, but its right Name is Cinano.

Euterng the Road of Arica, Ships may Coart the INand Guano, which is at the Foot of the Head land, or withon a Cable's Iength of it, and may anchor N. by E. from ir, the Stecple of Stur \%ran de ©ios bearing N.W. from them. Thut Stecple is to be diftinguifh'd by its height fromany Buldinge, not in the Town only, but on the whole Coall.

The Road there is very good, and you may ride in g If. Water, the Bottom a tough O.zec, and out of dauger; tho there are Rocks under Water too, which in leveral parts of the Road cut the Ships Cables, and hold their Anchors, to as they can never be got up; but thofe Rocks lie too deep to do a Ship's Bottom any hurt. This Ifland Gimano breaks of the Swell of the Sea, (which would otherwife go very high in this Road, when the Winds blow at S. or S.W.) and makes the Road caly and lafe.

Ships water here by digging in the Sand on the Tide of ELb, where, if they dig bur halta Fathom, they find very fiveer and good Water, which kecps well at Sea; but if they dig decper, 'tis brackith, and atter that quite falt.

The Shore being flat, and full of great Stones broken off from the inpending (rages, the Sca is always rough, beatmg and breakmg upon thote Stones, to that no Boats can come near to land any Goods, or to load any thing off, but they are obliged to run into fome little Crecks or Gurs, of which there are two or three near the Head land: The belt is that at the very Foot of the Point, where however they mult pals betwecn two high Rocks, and coalt along the biggett. wheh is on the Starboard fide among great Stones, which threaten to thate the Boars to pieces. This Rock is dry at low Water, and at high Water you may dicern it, fo as to know where it is. When you are pals'd it, you turn thore to the L.isboard-fide, ftecring directly to the firft Houles: And thus you cuter the great Creck, which at beft is to thoal, that even the Buats.ane obliged to cover their keels with Iron to fave them from rubbing againlt the Rocks.
S.W. from the Pore was a Village within the Head-land, on which there was formerly a Battery of Guns to detend the Paflage to the Town by thele Creeks, which nere once at-

## Sailing Directions for the

rempredby the fingh(h) Buccancers under Dampier, and they ware beaten off by the Shot from this Batery; but 'tis now neglected and in Ruins. N. 13. The Variation of the Compal's licre, is Sd . to the caftward.

Tho the Road here is but inconvenient at beft, yet 'tis much frequented, it bemg the nearelt Port to the Mountains of Porofi and other rich Mines, and a noted place for the loading of Rock-S.lt, which is dug out of the Mountains, and thipped off liere for all the weftern Coaft.

Ships that nde in rhis Hatbour are often detained by long Calnes, and by the ftrength of the Current, which always fets towards the lalet of (0) uiaca ; which makes it fometimes difficule to set out of the Road, becaule the Land-Brecze, which holds always from Midnight till near Noon, is fucecedal by the Sea-Brecze which blows from the S.W. The hatter comes too foon to give them time to double the Morro de Sama, or Head-land of Sama, which lics W.N.W. from that of Ite , and the more, becaule the Tides of Flood fenfibly come tromabove: It is on account of this Difficulty in turnnes out, that in fome Charrs it is call'd the Wevil's Foreland.

Fomather this Duliculty. if you would put to Sea from the Rond of Arica, you muit codeavour to take the Adwatace of the Land-Brecee to carry you out as far as you can, that yon may not be drisen bick into the Road by the Current ma Calm.

But if you are driven back, or in dauger of it, the only Remedy is to cone to an anchor about a $L$ to the fouthuard of Cinka, where you may ride in 5 to 6 Fa. the "intom a srecmith Oaze of an Olive colour, and in tome places mix'd Wath sand: 'ns a good Road and woll fecur'd.

This Harbone of Cintua lics is Ls N.N.E. from Arica,
 aciz I I.s, and thence to the diore de Sama = Ls ; to that from diva to the Head land of Sana is 12 Ls , the Courfe N.W. by W. and SE. by $\mathbf{E}$. Becwecnthem is a great Bar, all low Land, and a far landy Strand, as far as 'imuca; there the Land riles, und the Shore isftep, which makes the Road good. The an-choring-place is halt a L to the windward of the River of liama; here you may wood and water with the greatelt Convenconce of any Port or Habour on all this Coaft ; but there 1uns a great Surge of the Sea both in the Road and in all the Bay.

From the Rio de Sama the Coalt trends N.W. to the Rio de Th or Hilo, the Courfe N.W. by W. and S.E by S. the ditt. is 8 I ; in the midway is a noted Mountain, known upon .ll the Coalt for a good Sca-Mark, and call'd Acagtha. The Rwer of $7 \%$ is navigable, the Entrance good, and the Channol dep. The Town of Hilo lics a quarter of a L to wind"ard of the Raver in Lat. $18 \mathrm{~d} .+\mathrm{m}$. In this River alfo you may wood and water with all poifible Advantage.

When :on make this Head-land of Hilo from the feavard, ambercially bearing to windward, you will tec a mountainous Con:ury, which the spaniards call Loma (2)ucmadn, or the Burm R., at the cond it makes like the Mouth of a River, Win: that and low, but the high Land begins to rife again to"ard the S! :

In th. Way hemeen Sama and Hilo you fee again the Hill
which
you w Duc Creck only fi Fro here tr Courfic Tomba Rio To the La L. long N.W or Ilay morly all the 6) uilca Xuly, no of try. Courfe princip rlay, riding, 40105 alfo the

The a bold anchor you lice Port ; Tho th it ; the but are anchor ter We 20 Fa . with $t$ clan e Strand

Fron Bay be Ocoma appear clote to Muske good $V$ called

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$r$, and they but'tis now the Compals
cft, yct 'tis e Mountains ace for the Mountains,
icd by long always icts fometimes and-Brecze, is ficcecd-

The late Morro de . from that od fenfibly lty in turn-- Forclaid. o Sca from ke the Adfar as you oad by the
it, the only e fouthuard c 'ittom a laces mix'd
from Arica, nee to CuiIo that from ric N.W. by I low Land, Land riles, 1. The anhe River of catcit Con; but there all the Bay. the Rio de S. the dift. nown upon tula. The the ChanL to wind. cr allo you
he feaward, mountainwad, or the of a River, fe again to-
in the Hill
which you will fee upon the Coaft half a L . S. of the Pafiage, you will then go clear of the Shoal.

DueS. from the Town, and S.E. from the Road, there is a Creck goes in at fo narrow an Entrance, that like a Dock 'ti; only fit to admit one Boat at a time.

From the Port of Hilo to Xuly or Cbuly, is 2 Ls; the Land here trends away much more to the weftward than before, the Courle therefore is N.W. by N. Berween them is the kio Tomba and the Cerba Bucna: You may anchor agasit the Rio Tomba in 20 Fa. cican Ground ; the Coaft is all bold, and the Land high, only that there is a Gap of low land about a I. long, by which the place is to be known off at $S$ sa.
N.W. from Xuly in 19 d .30 m. lies the little Point of $Y l a y$, or Ilay, dilt. from X'uly ; Ls. This Place and Clouly were formerly the principal Ports for the City of Arcquipa, and for all the Coalt of 'P'cuafico, but 'tis fince chang'd to the Creek of' Quilca: Youmay know the Port, as you come to it from X'uly, by this cerrain Mark, rez that you will lee tle Volesno of Alequipa lying from the Port NE. G Ls off in the Country. From this little Dort of Xuly to the Creck of (.)!tiliz the Courfe is N.W. and S.E. dift. 10 L.s. This Harbour is now the principal Port of Arequipa; you may anchor in the Bay of rlay, bchind the Rocks calld the Finelous de' Ylay; 'tis gond riding, only that the Water is too deep, being not lefs than 40 to 50 Fa. but thofe Rocks are all hold, and above Water, alfo they are the Marks to know the Port by.

The next Port to this of ©uilca is Ocona, the Courfe N.W. a bold Coaft, dift. is Ls. In the Harbour of (i)utilca you may anchor at about a quarter of a $L$ from the lnand, juft when you fee the Crols: The Ifland is juft in the Entrance into the Port ; at the N.E. end of it you will have 12 to 15 Fa . Water. Tho this Harbour is but a Creek, yet good Ships go daily into it ; the Water flows there above 2 Fa. If you would go in here, but are kept out by contrary Winds, or by the Tide, you may anchor at the Mouth of the Harbour, and wait there for berter Weather, or to go up with the Flood: You lie there in 2o Fa. clean Ground, bringing the Strand of Camana open with the Head of your Ship; then the Ground is all tair and clean every way: You will fee the Town of Camema over the Strand as you tail by, it lies a little within the Land.

From Ocour the Land trends away N.W. by W. making a Bay between Ocona and Camana, ruming in S.E. Between Ocoma and Attico (two limall Head-lands on the Coalt) there appears a great broken Gap reaching along the River's Bank clole to the Water Edge, and running out to the Sca about 2 Muskethot from the Gap; you may be lupply'd with very good Water there. Near the Broken Gap lie two great Rocks, called by the Spaniards Los'Pifcadores, or the Hither:-

From this Port of Ocona the Courlic lics N.W. to Attico, dift. It Ls. If you come from Cape Arequipa, you will fec to windward a large Strand, being a fair tandy Shore reaching as far as 'Puevta Cbala; the Land within is very high and mountainous: Attico lics in Lat. 16 d .30 m.

From Cape Attico 'tis alfo $1+$ Ls to Cape Arcguipa; ar: from Arequipa to Port Lomo is $S$ Ls. Under the Head-hand ví Arequita lie fome tharp black Rocks, which muft be anoided.
chomeplace is halt a 1 to the suatare youmay of the River of vomence of any

From the Re"d Sama the Coalt trends N.W. to the Rio de 36 or Hike, the Courte N.W. by W. and S.E by S. the dift. is is Ls; in the midway is a noted Mountain. known upon all tice Coatl for a good Sca-Mark, and call'd Acaguna. The Kuer of lin is maigable, the Entrance good, and the Channel doy. The Town of Hibn lies a gurter of a $L$ to windwad ot the Ruce in lat $18 \mathrm{~d} .+\mathrm{m}$. In this River alfo you may wood and water with al! polfible Advantage.

When you make this Head-land of Hilo from the feaward, and ctpectally bearing to windward, you will fec a mountainouncommry, wheh the spmards all Loma (e)t mad, or the
 ha: that anflow, but the high Land begins to rile agan to"ard the se!

In the Wh between smai and Milo you fee again the Hill montond tove, calld adorgh, which will be your Guide
 Com, and alto m the River Mitio it felf, the S.W. Winds blow". : 1 wit in: Yee there is sood landang in the Port or Town 1t teh, ds well as in rhe Rever, wheh is parcicularly occafion'd le the lom of 7 lo raming out fo very tar into the Sca: This lin houcter is low, and you mutt be caretul not to come 1on 11. at $1:$. hecante of the ladraft; ar the Extremity of this Hert alto there is a little lland, which at a diftance makes lik 'out or five Rocks. The off-fide of the Iland is foul, fo that !oumult on all accounts kecp out at Sea till you are clear ef lio Pomer.

It :cu would come to an atachor in the Port of $\operatorname{Ch}$, you mutt hang he Brak in the highett Land, which you will fee 10: hoduard, to bear E. rilli you tee the Valley within the Hills beyond the Break, appearms thro' it ; when the Break , was thir hotore yon, then you are in the beft of the Rusd, andmay let go your Auchor with lafety. 13. The Pome ot $/ 12$ ha sa juft in Lat. 18 d large.

The Rown mo more here than a ltrat Coalt, and you an(1) tat open Sca, fothat Shipsin the Road are heen at a great d mance both up and down ; from whence it follows that here nult en aspeat Sca, let the Wind blow which way it will. In the beft of the Road you anchor in 12 to 15 Fa . finc tandy bineom, fumenhat oary, and to the northward of the little Illmet mentunt hefore to be under the Point, which is alfo calld (ir The ond of this Point is a low Rock, thewing very low it a diftance, bur rifing higher as you come nearer (1) it, whela ma hete matial.

In enatheaton: the fift Rocks it is to be obferved there is a Shoalunder Water, and which lies N.W. from another Shoal



20 ra. cle with the $H$ clean every Strand as y

From O Bay betwe Ocona and appears a clofe to the Musketho good Watc called by t From th if Ls. If windward far as $1 P u e$, tainous:

From Ca from Areq Arcquifol This Harb crs, but $n$ fome alfo Couric N. N. B. A Loma a S.E. by is low it. T arc bon and co: and fro here, quente. thing
From th cari, the and in Lat nor Creck from St. Head-land Gap in the Look then fec 2 brok coming in appear in ! appear ftec the Sca ; thete Mark Here alt fafer Harb give the wi from it, w

20 Fan clean Ground，bringing the Strand of Camana open with the Head of your Ship；then the Ground is all fair and clean every way．You will fee the Town of Camema over the Strand as you lail by，it lies a little within the Land．

From Ocona the Land trends away N．W．by W．making a Bay between Ocona and Camana，running in S．E．Between Ocolla and Attico（two finall Head－lands on the Coaft）there appears a great broken Gap reaching along the River＇s Bank clole to the Water Edge，and running out to the Sea about 2 Muskethot from the Gap；you may be fupply＇d with very good Water there．Near the Broken Gap lie two great Rocks， called by the Spaniards Lor＇Pifadores，or the frijl．er＇s．

From this Port of Ocona the Courfc lics N．W．to Aitico，dift． It Ls．If you come from Cape Arequipa，you will lice to windward a large Strand，being a fair landy Shore reaching as far as l＇uerta Chala；the Land within is very high and moun－ tainous：Attico lics in Lat． 16 d .30 m ．

From Cape Attico＇tis allo 14 Ls to Cape Arequipa；and from Arequipa to Port Lomo is 8 Ls．Under the Head－land of Arequifal lic fome fharp black Rocks，which muft be avoided． This Harbour is frequented much by trading Barks and Coaft－ ers，but not by Ships of Burden．From Port Acari，which fome alfo call Port de Loma，＇tis S Ls to Port St．Yitm，the Couric N．W．as before．
$N . B$ ．All the Coaft on this fide，fom Arica quite up to Loma and beyond it，lics N．W．and S E．or N．W．by W．and S．E．by E．The Land becween＇Port de Loma and St．Fobn is low and flat，but within Land the Momntains rife above it．This Port is a very good Retreat for Shipping，which are bound farther cither to the $\mathbf{N}$ ．or S．and the Ships going and coming between Arica and Arequipa to the louthward， and from the Port of Callao to the northward，often put in here，for it is an excellent Harbour；but it is not fre－ quented on its own Account，the Country producing no－ thing to load Ships with．
From the Morro de Acari，which is to the N．of Port A． cari，the Coaft goes on N．W．to Port St．Yolmn，dift．S Ls， and in Lat． 15 d .20 m ．S．In the Run you have neither Port nor Crack，nor any Place to get Wood or Wate：．N from St．Yobn is Port St．Nicbolas．About a L from the Head－land of St．Nicbolas to windward，you will lee a decp Gap in the Hills on Shore，thro＇which comes the River 1 li ifid： Look then to windward farther within the Country，you will fee 2 brokenHillocks；that molt to windward is the leaft ：allo coming in from the Sa，the Land beyond thote Hillocks will appear in high Ridges of Monntains；on the N．W．fite they appear ftecp，on the S．W．fide lower，and tloap away towards the Sea；at the Point they make in the Shap：of a Cialley．By thete Marks you will know this l＇ort．

Here alto there is neither Wood nor Water，but＇ris a much fafer Harbour than that of St．\％olsn．If yon wonld on in， give the windward Point a Birth，for there nins off a great Sho．id from it，which thoots tur into the Chanel，and moto the Soa． is that and low, and over it are lome reddifh Hillocks, by Wheh that Imall Part of the Coalt is to be known at Sca.

FromPort St. Nicholas to Port Cainlla, or the Hor fi Harbore, the Courtic is N.N.W. and S.S.E. dift. 6 I.s; 'ris high I. and alnolt ail the way; it makes in Ridges, which run back caltward. joyning to the Mountains of the Audes. Midway in the Courfe is a large Bay, in which among the Ridges you will tee a plain Momntain, wheh they called Mella, or N/enfib de Ninfira Scnora San:a Maria, or Our Lady's Tabbe. There the Land lies a hatle low, till you come to the River Ic..

This Bay is accounted very dangerous, becaule fubject to Calms in deep Water, and becaute there comes in a tumbling Sca upon every ordinary galc of Wind from without. If you would harbour in the Pori de Caralla, you mutt be tiare to go to windward. your Boat out at your Stern, your Yards and Topmafts itruck, and particularly your Auchor a Pick ready to let go : Then run in under a Spritlan and a Mizen.

Forget not alfo to obterve, that jult off of the Head going in, there are tome dangerous Rocks under Water ; and to thew you where they lie, there is allo one ilends out above Water. called the frats, or the liyar. When you are patt thele Diffeultics, and are got tairly in, you have an excellent Harbour, where you ride perfectly fecure in 8 to g Fa . Water.
N.W. by N. from 'Porto (iavalla lics Morro (e)ucmada, or the Bum Hiad-land: the Courle is N.N.W. and N.W. dift. about 12 L.s, viz. to Pout Olliros N.N.W. 6 Ls, and from Pome ()lleros to Morro (e)uentada 6 Ls N.W. To keep clear of the danerous Bay above named, you mult take care while you are off at Sca to make the Land tar enough to windward: Oberve alfo that the Port of Barca lies at the end of all the Rocks fouthward, where the Strand begins; if you would rede there, you muft moor with two Anchors a head, and your Kedge Auchor aftern.

From \%oz: ()lieros to AOrro (i)ucmada is 6 Ls, the Land high and level on the top and the Courte full N.W. Near \%or. () (eros, there are fomerockstol.ecward of the Head-land, and almoft clote to the Man, which look like little llands, you mayy der the Hills; 'tis a good Harbour 11 cafe of Squals trom the Mountains, or of flrong Currents ferting downwards from the Sea, but it is not much trequented, becaufe here is no Bufinets.

Morro (.) m"madics in l.ar. 1 d. $j 0 \mathrm{~m}$. 'ris a high Head-land, but Rnaps down behnd, and withinthe Country tis all flat and luw: The Cape is to very high, that 'tis generally cover'd with Clouds. There: is good anchoring far within the Cape, but 'tis fomerimes diflicult getting in, becaute of the Flaws and Gutts of Wind whoh come off the Cape, and trom the Mountains about it.

If you are refolved to go in, you mult range the Rocks which you will tee under the Cape; and kecpugg very uear them, for they are bold and flecp too, ule the utmell Caution
cnous comin tand ab the 11 is a lin twen by tha chor voutur go in. Fro Head. del'c 1 ; Fa. your the H jous : ther If one m $l$ iras which
N.N lan, la Spathe Berw C dift. make low there come came

## es for the Coufts of Chili ،ind Peru.

ro the l.and illocks, by Sc:. Hor fic Hirr; 'ris high h ruin back
Midway Ridges you , or Alinadv's Table. o the River
fubject to a tumbling ut. If you liure to go Yards and ick ready to

Head going and to thew hove Water. c part thete cellont HarWatcr.
ncmada, or N.W. dift. a, and from o kecp clcar c care whle windward: and of all the you would head, and
s, the Land N.W. Ncar $=$ Head-land, ittle mhauds, fittle Bay unals from the rds from the no Bufinets. a Head-land, is all that and covcr'd with ape, but 'tis is and Gults c Mountains
the Rocks ug very ue.ar moll Caution

However, a Ship may ge theo' the laflige whan the lile of Lobos, andeleape, tho it be danseroms, fior there is Water cnough : the Hakard is of touklung' upen the Rocks, for m coming out to the northward there is a Ledge of them, as is land above, whech reaches mone than a third part over towards the Man ; and to the northward of that I.edge of Rocks there is a tmooth Bank of Sand, which tomes as it were a Creck hetween it and the llland, where the Sca is fo till, being kepe of by that Sand. that it makes a good Road, and a Ship may anchor in 7 to 8 Fa. Water, and if there were occafion, might vcuture to carcen in it, but you munf found it well betore you go in.

From this Illand de Lohos to Morro de Viges, or the old Head-lanci, is but half a L. On the N.Ne. fide of thas Moryo de' Lejas, there is a good Road, where Shups anchor $m$ に ${ }_{15} \mathrm{Fa}$. but if you would go in there, you thould tound it with jour Boat betore you venture by the Point; the S.L. fide of the Headmakes like a Galley, but as yourmby it. the Land joms again, except a Gut of about sti. broad, and then ano. ther Illand fhoors with it, to that it all appears as if it were one main Land. From the Alor"" (e) emada to the Moro de Ifyas the Land falls ia to the callward, making a lange bay. which reaches all the way between them.
 lan, tan'd for being a blutterng formy Cape, which makes tome
 Betwecu this and the Alirro de legos hes the mand of Catrete. ditt. : I.s, the Come due N. and S. The domo d 16 ghe makes at Sea hike a hugh thand, but to the louthward it is io Iow 'tis feen but a licte way. On the top of the high part there is a Chif or Opeming in the Land, which looks when you come open with ut, to be very harge anddeep as it tome River came into the Sca there, but there is mo fuch thang.

Tho Cape Cianzallan be to flomy, by reaton of the Guths and Symats whith come down from the Momrans, yer on the S. fide there is a very good Harbour, and well drequented by the coafting Shups from $\neq i n$ oma and Limia.
If you would so in here. commy one of the Sea, or from the $N$ weftward, you mult furl all your Salis betore you come to that marrow Paflage, which is jull betore the Lutrance of the Harbour ; then run in with your bore tail very low ter. When you are patt the Narroiz, the Openus appears wide enough, and you may go boldy m, and anchor ar Diferetom. In the Paffige you have always hand Gates and Gufts; but when it opens, the Weather allo fenfibly athates, the Nomow of the Mumenains apparently drawng the Winds hive a Tore rent from the hygher Ground beyond them.

When the Breeze is over, and it proves cahm, as is whial every diy ar the proper hours, Shups ride caly enough ; but otherwite the thaws and Gufts are fometmes to volent eren m the Marbour, that Shus are ofich blownyuite out, and fored to run as far as the Bay of $P$ 'abaca tor Shetter; then when the Weather is feeted, they come back aghin to Cides,l!ity to take
and almut ooce to the Man, which look like little Inhads, you may go in to Lecward of them, and anchor in alittle Bay under the Hills; 'ris a good Harbour in calc of Squals trom the Mountains, or of ftrong Currents fetting downwards from the Sea. but it is not much frequented, becaufe here is no Bufincts.

Morro (.) ucmadalics in L.ar. 14 d . 30 m . 'tis a high Head-land, but noaps down behind, and within the Country tis all flat and luw : The Cape is to very high, that 'tis generally cover'd with Clouds. There is good anchoring far within the Cape, but 'tis fometimes difficult getting in, becaute of the Flaws and Gults of Wind which come off the Cape, and from the Mountains about it.

If you are refolv'd to go in, you mult range the Rocks which you will tse under the Cape; and keeping very uear them, tor they are bold and fleep too, ufe the utmolt Caution as you go on : firf hand all your Sails, only keep your Fore Toptail half Maft up; then be fire to have all your Anchors ready to ict go: obferve allo, whenever you let fall an Anchor, as foon as it towhes Ground, give the Ship a Shecr, and Ict go another for Sccurity, elfe the Flaws taking your Ship, the firft Anchor will come home, and you may be upon the Rocks before your fecond Anchor can bring you up.

Having taken thefe Precsutions, watch the Winds flacking, and go tarther in: when you are yuite in, "tis a fine caty Road, and you may anchor againf the Strand in what Water you picale, but you muft moor with an Elbow for the better Riding in the properelt Polture and Place to come out. It would be much caficr going in to this Harbour. if you would contrive it to as to be before the Place carly before the Sca breceefets in.
N. B. When you come out, youmay run between the Ifland and the Main withour any Danger at all.
N. B. You can get neither Wood nor Water in this Road.
 Inand of Lobos, or of Wolie's; 'tis a fmall Inland about: of a L long, laretching NW. and S.E the Land indifferent high. There are levesal that low Rocks between the Ifland and the Main, which ftretel out towards the Head-land half over the Chamel. Icaving the Palfage between very narrow and dangerous, tho many Ships have palt it by Miftake, thinking it had been the Channel berween the Ifland of St. Gallazi and the Head-land of $l^{\prime}$ ariaca: But it mut be a very great Neglect, for they are caty to be known alunder. The Inland of Lobos is foul and Rock; lic all round it, with one which is called the Breaker, and ftands up like a Sugar-Loaf above Water; whereas the lle St. (iallati is clean and bold, no Rocks about it, and the Chamel between much broader: Befides, the Land on the Main difers extremely, for that of Paraca is of an equal height, whereas that of Morro (e) encriad comes down floaping from the N. fide, from a vaft high, Mountain to the Sea fide, where you anchor on the Starboard fide of the Eatrance.
the $N$. to that the $\mathrm{Ha}_{2}$ When, nough, In the when of the rent fro

Whe very da therwill the Har to run : Weathe in their

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cllauds, c Bay unfrom the from the Bufincts. cad-land, ill flat and cr'd with c, but 'tis and Gults Iountains
he Rocks very uear t Caution our Fore - Anchors 11 an $A_{11}$ shecr, and our Ship, upon the
s flacking, afy Road, Natcr you ter Ridugg ld be much ive it to as in. the Inland this Road. L lics the out: of a rent high. ad and the fover the ad dangeing it had ais and the cglect, for bos is foul ne Breaker, nereas the F, and the id on $: 1:$ a
an cqual n floaping c Sea fide, uce.

是
the N. wettward, you mult lurl all your Sals betore you come to that narrow Pallage, which is jult betore the Entrance of the Harbour; then run in with your Fore fail very low fer. When you are palt the Narrow, the Opening appears wide enough, and you may go boldly in, and anchor ar Diferetoon. In the Paflage you have always hard (jales and Gufts; but when it opens, the Weather allio fenfibly abates, the Nartow of the Mountains apparently drawing the Winds like a Torrent from the higher Giround be yond diem.

When the Brecee is over, and it proves calm, as is utial every day at the proper hours, Ships ride caly enough ; but otherwife the Flaws and Gufts are iometimes to violent even in the Harbour, that Ships are ofren blown yuite out, and forced to run as far as the Bay of $P^{\prime}$ araca for Shelter; then when the Weather is fettled, they come back again to Ciansalian to take in their Loading.

Within the Harbour of Cangallan you have all deep Water; the Point it felf is an Mland, the Land as above exceedmg high, broken and uneven: and on the $N$. fide it is all toul and rocky:
N. B. The Illand of Cangallan or St. Gallan is all one, the Spaniards calling it sangallan, that is St. Gallan: Our Sailors put it together, and corruptly call it Cing allan.
Oppofite to this liland on the Main is thellead hand of Morro Paraca, which is very high, and feen far out at Sca. Within the Illand on the E. fide is all deep Water, but on the N. fide the Shore is cover'd with Rocks great and limall: on the S. fide there are alto fome Rocks, but finaller. Between the Itland and the Main there's a good deep Channel, thro' which the C.beti Ships pals to go moto the Harbour of $\cdot P$ fio and alto into that of Cing gllan ; the Paffage is fair and clean except on the S.W. fide: There is fome Danger of the Rocks, but as the Channel is good and above 2 miles broad. Strangers need only keepin the lair ll'ay'. From the Illand Carrota to Cangallain is; Ls, the Courfe N.W. and S.E. Ciarretta is a limall low mand, round in form, a good Coalt, but no Harbour, and lies about of a L dift. from the Main, and from Morro de lyas about = Ls N. and S. The Illaud of St. Galian is ditt. from Morro (e)!emada 9 I.s.
N.E. from St. Gallan is the famous Harbour of $P i f i o$, and the Bay of Paraca. You may anchor all the way upon this Coalt with great fafery, 'tis clean Ground from the llland of
 above. In palling thro' the Channel of St. Gat!.an, between that and the Main of 'P'd aca, you mult go rather on the fide of the Main than of the llland, viz. withm, of a Lrom the Headland of Paraca, there being a Shoal which lies S.S.t. fiom the lland half a L dift.

As you lail thro' this Paffage on the fide of the Main, yougo within 2 Cables length of a tmall Creek, and a Road in the Mouth of it, called Einferado de? 'en or Ol.i Maris Biay:

## Sailing Directions for the C

here is good auchoring in 12 Fi. well fhelter'd from northerly and cafterly Winds, and the Illand which lies off to the weftward breaks off the Sca; yet 'tis but an indifferent Harbour with a S.W. wind. Within a Cable's length of the N. Point of that Bay, you have 15 Fa. the bottom good, hard Sand and Shells.

From this Paffage, after you have food due N. to get thro', aud be clear of the Ifland as well as of the Head-land of $P a$. raca, you itand N.E. to the Road of Pifoo; but if you come out of the Sca, you fland in E. by N. between the Iflands of Chinca and thole of Ballefta or Ballata.

The Mlands of Chinca lie due W. from the Anchoring.place before the Town, dift. about 3 Ls. In order to anchor in the heft of the Road bere, bring the Mlands of Cbinca to bear N.W. from you, the Ifland La Ballefta S.W. and St. Gallan to bear allo S.W. over it.

All along this Bay, which lies between Cbiuca and $\mathcal{P}$ ifin, you may ply to windward which way youpleate. From the Port of C/benca to the Town of Pifio is 6 Ls, the Town ftand. ing up the Comentry within the Land a good way. The chiet Miark for anchoring in this Harbour is as above to bring the Iflands of Chenca to bear N.W. The Coaft is all clear of Shoals, and the Ground clean over the whole Harbour, except abour a L. and half jult belore the Town, where the Channel has thrown up fome Shoals, when the Winter Frefhes come ftrong down from the Mountams.

Yet the Road of $P$ ifion is large enough to receive a whole Nary Royal, and is perfectly lafe: The northerly Winds, which farther fouthward were reckond dangerous, feldom blow in this Latitnde, and when they do are generally moderate, and the Road is expos'd to no other; the Iflands which lic off. breaking off the Sea from all other Points, are a Slielter in cale of S.W. or S.E. Winds. If the Ships want to wood and water, they go halt a L to the northward of the Town: If they want to fit and trim, walh and tallow, or even to careen, theygo to the fouthward into the Bay of Parach, at the Botrom of which is a clean Strand, a landy Oaz, and no rough Sca.

Ships may anchor over all the Bay in 12 to is ta. well flelterd, in tmooth Water, and a grood landy bottom. N.W. from La Bodoga in the Bay of Paraca, there is a very good Rowd: Thereare fome Houles on the Shore, buit on purpofe for the Conveniency of loadng and unloading Ships, and many Ships chute to anchor there, tho it be 2 Ls from the Town, rather than go up to the Road, becaule the Sca runs fo high at the Landug-place before the Town, that it is almoft impoffible to land there, elpectally in the day time; fometimes in the Moming it may be done with rine help of a good Hawfer, or imall Cable and Anchor, but it is always with Trouble, and not without Danger, at leaft of Itaving the Boats.

Ships wood and water here with great Conveniency, and are cafily victualld on occafion for the lougeft Voyages on that fide of the World ; fo that the Road is always full of Shups

From 'Port Paraca, or 'Pifio, to Chinca, not the Ifland, bur the Port of Chinca which lies on the Coaft, the Courte is

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Canette lics in Lat. 13 d. 20 m . From thicnce to the 1 Ine of Afar is 7 Ls , from the Mala is $3^{2} \mathrm{Ls}$, from Mela to Chilicia Ls.
Midway between Afia and Cljilca is a Bay on the Land. within which there are 3 or 4 Mountains, by which you will know that Place at a diftance. The Illand of Afia appears white at a diftance, and there are fome white Rocks withm it. All the Coaft from Canette to Chilca is a bold Shore, the Land uext the Sea low and plealant; but the Mountains of the Cordilleras or Andes fhew themelves over all behind; fo that when you make the Shore, you ficaree fee the low Land between thofe Mountains and the Sca.

You may know this Port, by obferving a great Cleft in the Mountains, being an Opening thro' which the River Circa makes its way to the Sca: Allo from the Coaft there flopps down another Hill towards the S.E. which runs to the Headland or Point, and joins as it were jult over the Town of Canette. The Head-inad is tot very hyg, but it thoals our a great way into the Sca.

This Harbour of Clailca is in proportion to its bigncfs, the beft in all the Sents.jed, except that the Entrance is too narrow, yet even ihis caufes the Harbour when one is in, to be as ftill as a Millpond. It is indeed to fimall, that it will reccive but 7 or 8 Ships at a time. To go in is very caly; you mult fift drop ais Anchor in the Mouth of the Entrance, and then carry out a Warp, and warp in behind the fmall Ifland which makes the Paffage, then moor where you pleate, 'tis every where good.
Frona Chilea to the Headland of Callao is 8 Ls, the Courfo N. by W. and S. by E.thus; From Chilca to the Farellons, or th: Rucks of Pachacama, 3 Ls, from thefe Rocks to Morre Solar 2 Ls, from the Ifland of Callao to the Morro Solir 3 L.

To the Port of Callao before Lim, from the Bay of Paraci., S. of Ptfo, the Courfic is N.W. and N.W. by N. dift. Lo
N. B. The Port of Callao and the Ifland of Callato are diffe. rent Places, and the dift. one from the other; Ls N.E. and S.W.

From the Harbour of Cbilca to the Port of Callao the Courfe is N.N.W. viz. to the 2 great Rocks, salled as abovethe Rocks of 'Pachacama; thete are feveral linall Illands or Rocks rather. On the S. fide of them is a low Saddle Point, by which the Place is known. From hence the Coaft ftretches N. by W. 2 Ls more to Cape Solar, or Morro Solar, which is the fame Place. To the northward of this Cape lies a long Ifland, ftrecthing N.W. and S.E. called L' Ifle de St. Lazirence; at the S.E. end of which, leparated by a narrew Channel not : a mile broad, lics the little Illand Callao, bearing due N. and S. from the Head-land or Point called Punta de Callon. There is alfo another very low round Mland, lying half a L . out at Sca, from the N.W. cud of the liland St, Lawionte: N. B. Withinabout 2 Cables length of this Ifland of St. La: rence, there is 60 Fa. Watcr, Bottom foft Oaze.

The Road of Callas is certaiuly the greareft, the finct and the fairelt in all the South $b$-Sca; it is fite Rudug, clenn Ground deep Water, and gradual Shoalings over the whole Rond, as well above the Town towards les Pifadires, as below it to

Ships may anchor over all the liay in 12 to is fa. well flecter'd, in tmooth Water, and a good fandy Bottom. N.W. from Lal Bodoga in the B.ay of 'Paraca, there is a very good Roand: There are fome Houles on the Shore, built on purpofe for the Conveniency of loading and unloading Ships, and many Ships chute to anchor there, tho ir be 2 Ls from the Town, rather than go up to the Road, becaule the Sea runs fo high at the Lauding-place before the Town, that it is almof impofiible to land thete, efpecially in the day time; fometimes in the Morning it may be done with the help of a good Hawfer, or fimall Cable and Anchor, bur it is ahways with Trouble, and not without Danger, at leaft of flaving the Boats.

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 I from:P位力 that way, there is a Ridge called Catucato) ; you math not come too near that timall Slip of the Coaft, becatue of thole rew Shoals made by the Frelles of the River of pi/io, as above.

In the Midway between 'Pifion and C'bincal is a Place called Lorincinge, where there is a rolerable good Road. It is not a Town only, but a Road for Slups; there is a fair Strand on the Shore. but there suns a areat Sea upon it; you may anchor in 6 Fi betore a Honle which you will fee on the Shore near a White Church, whel Houte they call Lil Molizo, or the Mill.

From Citinca to Cancto is its, the Courfe N.W. If you would come to an Anchor in the Port of Chmea, obferve a Palm-Tree up wethin the Coumery, thro' a large Gitaca or Indian Payode, or Place of Heathen Worlhip: brug both the Trae and the Papode into one, bearng duc E. from you, then you are in the beft of the Road, and may anchor in 7 to 8 Fa . Here Trading Ships rude as above, but the king's Ships ride farther out in 9 Fa .

Before this Pore there are fix Illands, always looking, white tike Chalk by the Dung nf Fowls which breed there, and they are hnown ar a diftance by their Colsur, which is very particular ; they bear trom the Anchoriug place N.f. and S.iW. ditt. Les, bens low: and, except by being ditcolour'd with the Dung, they book a litete reddith.

From Cabiste the Shore contimues to trend away N.W. to Cbelca diff. it Ls. Betwecn them you, firft mect with an Ifland monder Shore, called the Ille of Ahit; 'tis a finall whire Ifland abom thate a I in Circunference; it makes from the northward with a Break or Chte in the midde, that pare which is to the ponthard heing nowh hyser and beger than the other.
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The Road of Callato is certainly the greateft, the finceft and the fairelt in all the South-S'ca; it is lafe Riding, clean Gromed, decp Water, and gradual Shoalings over the whole Road, as well above the Town towards les Pifcetideres, as below it to St. Lazirence Iflaud. You may turn in or out as you find Occafion, and as Wind and Weather permit, 'tis all clean and clear from Rocks or Shoais.

If you are bound in from the Sca , give the $\mathcal{P}$ unta de Callao or Head-land a good Birth, a L at Icaft, becaute of the Winds off thore, which if you come nearer, you will find come off in ftrong Flaws and Gults: Allo take care of a finail Ledge of Rocks which lic off from the windwardmof Point, all the reft is perfectly clear.
Ships coming from the windward to the Pore of Cailion. pals thro' the Bonqueron, that is, the Channcl or Gut which is between the 'Punta de Catlio and the Illand of Calian, be caule the Wind always ferves them thro' that Paffage; and clicecially if they arc fimall Suips they go in right atore it, and there is at leaft + Fa. in the thoalcit part of the Chamacl. The beft way is to fand in from a litele to the windward of the Illand of Callaro, and to run on, till that part of the lland that is to landward of the Morro Solar be flut in, and hid by the Pe'lia Horodadu or pierced Rock. There are Croffes upona cach of thofe Points; bring thofe two Croffes into one, and yon may rua boldy in withour farimg any thing: Thote Mank; well oblerved will fecure you cffectually from all dangers.

At the End of the faid Channel calld the Bonguryu, which is the Palfage between the ewo bigget blands, and where the N. fide of the greater Ifland begins, there allo begine the thatlowedt part of the Channel : The far thoy hes the N.W and S.E. and you mult always keep the Pe cin Harodada ryitit aItern; and when you find a great Rock, which tios heincen: the two great illands, hidden by the S. pare of the greatell Ifland, then keep clofer to the illand, for then you may be fare you are clear of the Shoal. The fute of the Illand has more Water than the Point of Celloz, where the Buak how and where you will tee the Sca break upon it.



IMAGE EVALUATION TEST TARGET (MT-3)


Photographic Sciences


In this Courfe alio obferve a Break or Cleft in the high lamds of the Mlland, with a white Spot on the Top of it ; then you may incline a little towards the Port de Callao, ftill giving a Birth to the Shoal, which then is to the caftward of you. or N.E Nor when you fteer in, muft you come very noar the Point ; bur provided you keep the N. Head-land of the lland to the weftward, you may lafely run in, and come to an anchor in the Port.

Youmay anchor in the Road alfo in what depth you pleafe, the Ground an Olive colour Oaze : There are no Rocks or Shoals, execpt one about three Cables length from the Shore near a I'oint of the Mand of St. Laturence, oppofite to la Galera. The Sea is always to ftill there, that the Ships careen at all Seatons, without far of being furpriz'd by fudden Gufts and Flaws, as is the Cafe farther S.

This Road indeed is open to the N. and to the N.N.W. but thote Winds hardly ever blow here, and if they do 'tis but a very gentle calj Gale, which never makes the Sea fivell to do any damage: The Inland of St. Lawreuce breaks the Sca off from the S.W. to the S.E.
$N . b$. The Place call'd above la Galera is not an Indad, but the weftermoft Point of the Ifland of St. Lawrence, which is call'd by the Name of the Galley, becaufe Slaves condemned to the Gallies we:s banithed hither to dig Stone in the Quarrics, the Spaniards having no Gallies m thofe Seas.
In this Port of Callas are to be found all Conveniences for Life; watering is moft cafy in a little River which comes down from Lima, and bears the Name of the City, and which talls moto the Sea under the very Walls of Callao.
$N . B$. The Port of Callao lies in Lat. $1=\mathrm{d} .10 \mathrm{~m}$. 'Tis 2 Ls by Land from Callao to Lima, of wheh this is the Port.
From Porto Callao the Coaft trends N.N.W. to the Farrelimes de los P'sfadiores, or the Fifthermen's Rocks, dift. 5 Ls , and from the Head of the Illand de Callao 'ris 5 more; the I and between is low from Callao to the Rock calld de' ${ }^{\text {D }}$ oma livancifia exclufive, and high from Dona Francifica inclufive to lus Pifadores.

The ferralones de Pifiadores are a Clufter of Rocks, fix in number, all looking white, but of differing Dimenfions; that to the N.W. is the biggeft. They bear from one another E.N.L. and W.S.W. the great one, and the Rock call'd Hormigas bear from one another E.by N. and W. by S. and from the lland of Ciallao N.N.E. and W.S.W. dift. as above 10 Ls.
N.W. from the great Rock of the Pi/cadores, which lics allo N.W from the inft, lies the Port of Chaucai, dift. from the 1aid great Rock 3 Ls. The Land is high next the Sca, and makes with a Break or Cleft in the Middle: This high I.and is call'd Sterra de la Arena, that is, the Hill of fine Sand. E. and W. with the aforelaid largeft of the Pifcadores Rocks is a Harbour, which fome call Puerto del Ancon de Rhodar, others ouly el Alucon ; it is a good Port, and lafe riding; and diftance
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on it under Sand. whic! and a ter. and $i$ by da Yo Ifland Ship: may Head fuppo the d long on ti may ing 0 you have

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the Farres, dift. s Ls, more ; the il'd de 'Doma /Ca inclufive

Rocks, fix Dimenfions; one another k call'd Hor S. and from pove 10 Ls. rf, which lics dift. from the the Sca, and shigh land is fine Sand. E. es Rocks is a k/sodar, others and diftance
mention'd above, then the Hormigas or Ormigar; thefe lic E. by $\mathbf{N}$. and W. by S. from one another, dift. g Ls. The $/$ lorm. gas and the Malte $/ 2$ bear from one another due N. and S. 7 L.s.

The lland or Rock call'd Hormiras is but finall, it makes white when you fee it from the Sca; it has a little break upon it in the Middle on the S. fide: There is good anchoring under it on the lame fide, the Bottom clean, and good hard Sand. On the N. and N.W. fides there are feveral Rocks, which make a Flat or Shoal ftretching out to feaward near a I., and at the End of thole Flats leveral other Rocks above Water. By day you may fee the Breach of the Sea upon them, and in the night you may hear it as far as you can fee it by day.

You muft look well out when you pals by thele Rocks or Iflands of Hormigas, for they have been fatal to many a good Ship: Nor is it polible to thun them lometimes, as the Winds may lic. If you are in that Latitude, and would make the Head or Point of the great Rock properly call'd Hormega, fuppofing it to be in the night, or that you cannot fee it in the day by reafon of thick hazy Weather, do not make too long a Stretch, tho the Wind thould be large, but ply off and on till day, or till the Weather clears up; for fometimes it may happen to be calm, and then you cannot hear the breaking of the Sea upon the Rock, and may be a-ground before you are aware, as has happen'd feveral times to Ships which have food too far in upon a Tack.

From Malte/f to the Morro Salina, or the Head land of Salina, the Courfe is N E. and S.W. dift. 4 Ls. From Malte/ito another great dry Rock call'd Marfocque is a $;$ L. and from Marfocque to the Main is 2 Ls. Thele are the Rocks of Guara, call'd to trom the Cabo Guara which they lic offtron, and after which they take their Name; they are leven or cight in number great and fimall, bearing from one another E.N.E. and W.S.W. They are clean all about them, and iteep too, with deep Water as well within as withour, particularly between Maltefi and Marjocque: The Chanel is good and tate, and has not Iels than 40 Fa. Water in it ; but if you are bound thro', keep a little to the windward, and ftand by your Anchors, having them ready to let go on the firlt Occafion.

This Rock of Malte/i and the Illand 9 Don Ilartin bear with one another N.E. by N. andS.W. by S. Malte'ti and the Illand of Callao bear to one another N.W. by N. and S.W. by S. difl. 15 Ls; and all the Coalt from below, that is, from Sunta to thele (above Sca) Rocks, has decp Water and a clean Courle.
N. B. The Rock Maltefi is in Lar. 11 d. $40 \mathrm{~m} .2 \div$ Ls from the Main ; Marfocque is larger, and lics a L. from Malte'i towards the Shore.
When you come in for the Main, and make thefe Rocks, rake heed you do not, to fhun them, run into the Bay ot Chancai, for there are commonly desd Calmes and a grear Sca, as is laid above; but ftand away for the Hormegas.

From this Rock Malte $/ t$, which is the outmoft of that call'd Partridge Strand, the Courle lics $N$ and S. to Cithaco, ditt.

The Lerralones de Pi/cuderes are a Clufter of Rocks, fix in number, all looking white, but of differing Dimenfions; that to the N.W. is the biggeft. They bear from one mother E.N.E. and W.S.W. the great one, and the Rock call'd Hormigas bear from one another E. by N. and W. by S. and from the Illand of Calla N.N.E. and W.S.W. dift. as above 10 L.s.
N.W. from the great Rock of the 'Pifadores, which lies alfo N.W. from the relt, lies the Port of Cbaucai, dift. from the daid great Rock; Ls. The Land is high next the Sca, and makes with a Break or Cleft in the Middle: This high L.and is calld Sierra de la Arena, that is, the Hill of fine Sand. E. and W. with the aforelaid largett of the Pifcadores Rock.s is a Harbour, which fome call Puerto del Ancon de Rhodar, others only el Ancon; it is a good Port, and fafe riding; and diftance from the Pificadore Rock only ${ }_{\mathrm{I}} \mathrm{L}$. The Paffage in, is to the N.W. of the grcat Rock, 'tis all clean and decp Water ; but no freih Water, Wood, or any orher Refreflhment is to be had.

The Port of C/aucat is very inconvenient for Calms, for tho there : :c flark cicad Calms, yet there is a great Sca, which pulhes you upon the Coaft, io that it is almoft impolfible to avoid going on Shore: If therefore you are bound in here, and taken with one of thefe Calms, you had better go ou by the Illand Hormigas.

Yet C'ibaucai is a very good Port, land-lock'd againf the foutherly Winds, which are here the moft boifterous. There is indecd fometimes a great Sca in the Harbour, occafion'd by the Sca-Breczes which blow right in, and hold it a long while together, fo that there is no Shelter againft them: Yet the Swell is not fo grear, but Ships may ride it out if their GroundTackle be good, for the Anchor-hold is good in a hard Sand.

To go in here, your beft way is to run clofe under the Headland, for the Port is to the Lecward of it; you may anchor at Difcretion, the whole Port is all clean Ground : Here you have frefh Water and good Provifions, etpecially Flour, Oil, Winc and Brandy. In your going into this Harbour, take care not to come too near a little Bay, which you will ice at the Entrance, for it is all foul, and has many fharp little Rocks lying under Water, which are very dangerous.
N. from Chaucai lice he little Town Chaucaillo, the Courfe
N. by W. dift. only 2 Ls : The Shore here is all ridgy and full of Hillocks, they look bluc as you make them from the Sca, but they arc only grown with thick Bulhes, which caufes them to feem dark. On the contrary, when you come near the Town, they and the Town alio appear white. The Town lics half a L from the Shore, but you fec the Church of $S t$. Francifio very plain. The Harbour is the fame as above, belonging to both the Towns, but not much frequented.

You have here abundance of Rocks and rocky Iflands upon the Coaft. from the $P$ ' ${ }^{i} /$ cadores to the Salinas, and reaching as far N. as Dort Giuara ; thefe are the Fiarelone's de Pifiadores

## yoc melume

f Rocks, fix Dimenfions; m one another k calld Hor. y S. and from bove 10 Ls. $e s$, which lies , dift. from the the Sca, and is high land is finc Sand. E. res Rocks is a R/bodar, others ; and diftance c in, is to the Water ; but no s to be had. Calms, for tho :at Sca, which timpofible to ound in here, tter go on by
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From this Rock Malte $/\{$, which is the ourmoft of that call'd Partridge Strand, the Courfe lics N. and S. to Guaco, dift. 7 Ls; between them lie the Salinas or Salt Pouds. The Land in this Courfe lies low and flat next the Sca, the Mountains appearing beyond it like Clouds. There is a vely good Harbour at the Salinas, and you may ride cafy, tho the Brecze gencrally blows hard in, and brings in a rumbling Sca.

If you are obliged to put in there for Shelter, you mult, but you will get nothing ellic; and if you want Wood, Water, or other Provifions, you muft fetch them at Guara. If you would ride hacre, you muft anchor before you come up to the Rocks, which you will fee under the Shore: Come no nearce than 7 to 8 Fa .
N. B. Here is another fmall Port call'd Puerto de la Barca, bur tis of little or no ufe, there being nothing to be had but Anchorage, which is to be liadin many Places juft by it.
Likewifc on this Coaft, from the Salinas to windward near Cabo de Remate, and over againft los Farrelones de Guara, or the Rocks of Giuara, there is a fmall round Bay in which is good ridiug; 'tis flaped like a Horfe-fhoc, and is therefore called la Herraduse. It is a very ufeful Place; for if you are coming from the Sca, and cannot weather the Rocks of Cinara, you may put in here, and befafe, it being an excellent Harbour ; you ride between the Point and the Main with great lafety : The Point is call'd the Remate, or Cabo de Remate.
There is a fmall Rock in the Bay, which they call Tambrlio; you may run on cither fide of it, between it and the Shore or without, 'tis not dangcrous becaufe you fee it, and 'tis clean and decp all round it. From this Point to the 'Playa de bos Perdices, or the Partridge Strand, is 3 Ls ; the Land between is call'd the Tambo, or the Coaft of Tambo. Upon this Strana you have good clean anchoring-ground, under a Row of high ridgy fandy Hills, one of which lying to the northward is higher than the reft. When youcome from theleaward towards this Land, thofe Hills refemble a Covey of Partridges juft rifing, and from thence the Coaft or Strand has its Name.

You are fuppofed now going to the northward, and that you are the height of the Rocks of Guara: Fiom thence

## Sailing Directions for the Coafts of Ch

N. by E. lies Giuaco, dift. I L. And whence to the Inland of 'Don Martin'tis alfo it. They lic in Lat. in d. 30 m . Going to windward of the Illand, you will fee another little Illand, calld Ilba de Lobos, or Sea-IVolves IJand, near which there is a Shoal ; you muft take great care to keep without it, and at a good diftance from it, for it is very dangerous, and but litele Water within it. To anchor in the Port of Guara, bring Illja Lobos a-ftern, and bring two old Walls which make like two Pillars, and ftand upon the Point or Head land, into one; then let go your Anchor, but take care to found the place well, for the Ground is foul, and there are feveral funk Rocks, which tho too deep to hurt your Ship, will cut your Cables, and you may lofe your Anchors.

You muft moor here with an Elbow, for you have a rude Sca, but the Harbour is much efteem'd : You have good freflh Water, and may get all neceffary Provifions from the Town, which is a L from the Harbour.
N. B. The Ifle of Don Martin is high and rocky, it makes white at a diftance ; 'tis but a fimall Illand, about half a $L$. in compals, and a quarter of a $L$ from the Shore.
From the Illand of Don Martin to the Strand of Soupa the Courfe is due N. dift. 3 Ls: The Land on the Coaft between is low, but behind thar low Land the Country is exceeding mountainous, and the Hills rife up in fmall Pico's like Volcano's. This Playa de Soupa makes a large Bay ; the Shore is all a loofe Sand; the Bay has always a great Swell, and if it blows hard there is a very rude Sca: This is the reafon that few Ships ufe the Place, except Coafters from Lima and Panama to load Corn.

From the Bay of Soupe to the Rio Barranca, or the River of Hillocks, the Courfe is N . the dift. 2 L . To Leeward of the Strand the Coaft is full of red Hills, which make a fmall low Point ; and to Leeward of the Point is the Port of Barranci, in Lat. I d . large; there you may anchor in 6 to 7 Fa. and moor with an Elbow, to guide your Ship between both Points for the Land-Brecze.

About a L before you come to the Rio Barranca lies Paramonguilla, a Head of Land which makes at a diftance like a Ship under Sail, and as you come nearer hews like a high white Rock: About a L to Leeward of it there is a low black Point, that looks as if it was cut off right down from the Main; and to Leeward of that there is a large Strand. Here you may anchor, in cafe the Current forces you in, in 6 to 7 Fa .
From the Rio de Barranca, or of the Hillocks, the Courfe is N.N.W. to Jaguey or Haguey de la Cofta, dift. 9 Ls: The Land appears in Heaps and Hummocks, bue low next the Coaft; and in rhe Middle there is one Hill higher than the reft, call'd the Sierra de Gramadal, on the Top of which are two Cliffs, which make it look like three Hills, the middlemoft is the liigheft, the fouthermoft the loweft, and the northermoft the Icalt and round. If the Weather be thick, and you have an Olling, they make like three Illands.
From Hagucy de la Coffta the Shore trends away N. half W. to $P$ pueto de Guarmey, dift. 4 L. This Port of Guarmey has

Tho the Inlat cially for this, t from the Shore : Fa. Water in it, you go but 100 deep in the Sand
You may kno Hill with a Cleft the Sea-fide, and ftecp as a Precipi miftake.
N. from Mong And here the Co of the Coalt; for out far weftward, and the Current There is a great I higher, and feen the Coaft; if you at the Top like a with fome broke the broken Land tiguous.

Cazma is a ve blowing Weather to Sun-fer, yet y the N. Shore, yo bove Water ; on of about 2 or ${ }_{3} \mathrm{~S}$ difcern where it which it docs tho you are paft betw cretion in 14 to come to an ancho Head-land which Hawfer or Strean about the very Shore.

From this $P$ or dift. 1 ILs ; betwe are alio feveral fin when you make $t$ caule the Points approach. If y forget that to wi fmall Rock under land you will fee right in, and co may go farther will fee great Sp Hawler a-fhore, the Hills.

Oppofite to th or Holy I/land, a
of Tho the Inand is fmall, it has a good Harboirr, and cfice. cially for this, that there is good freelh Water at a timall diftance from the Shore : You will fec a little Well with about half a Fa. Water in it, which is tolerably good; aud fo wherever you go but io or 12 Paces from the Sca, and dig but a Yard deep in the Sand, you will find frelh Water.

You may know this Harbour off at Scaby a great thick high Hill with a Cleft in it, which ri $s$ down to the fouthward to the Sca-fide, and on the $\mathbf{N}$. fide 'tis almoft perpendicuiar, as ftcep as a Precipice : This Mark is fo particular, you cannot miftake.
N. from Mongon the Coaft ftretches on to Cafma, dift. 4 Ls: And here the Courfe of the Sea alters, as well as the Sight of of the Coaft; for from Port Cafina, or Cazma, the Land trends out far weftward, and the Coalt lics N.W. by N. and S.E. by S. and the Current of the Sca for the moft part runs to Leeward, There is a great Mountain juft over Mongon, which is much higher, and feen farther than any of the Hills on this part of the Coaft; if you fee it at Sca S.W. from you, it makes level at the Top like a Table; if E.N.E. from you, it looks round with fome broken Land on it; and when you have it N.E. the broken Land begins to open, and flew fimooth and contiguous.

Cazma is a very good Harbour ; and tho you have always blowing Weather and hard Gales here from about 12 at Noons to Sun-let, yet you have nogrear Sea: In the Bay and neareft the N. Shore, you will fee a finall round white Rock a listle above Water; on the other (South) Shore there is a fmall Shoal of about 2 or 3 Ship's length, which you cannot fee, but may difcern where it is at low Water, by the Sca breaking upon ir, which it does tho there is at leaft ${ }_{1} \frac{1}{2} \mathrm{Fa}$. Water upon it. When you are paft betwecn thefe, you may range the Shore at Difcretion in 14 to 15 Fa. clofe to the Strand: If you would come to an anchor, ftecr againtt Cape Blanco, being a whice Head-land which you will fee on the Shore; there carry your Hawfer or Stream-Cable on Shore, and make faft to the Rocks about the very Cape, you are fure of having the Wind off Shorc.

From this Port Cazma the Coaft gocs away N.W. to Ferol, dift. $1_{1} \mathrm{Ls}$; between them is Harbour calld Guambacho: there are alfo feveral fmall Illands and Bays upon the Coaft, which when you make the Coaft at a diftance, you cannot difcern, becaule the Points overlap one another, but they open as you approach. If you would anchor at Guambacho, you mult not forget that to windward of the Hill call'd el Morro there is a fmall Rock under Water, and when you are within the Hesdland you will fee broken Land on your Starboard-fide ; fteer right in, and come to an anchor over-againft a Hill; or you may go farther up on the fame fide, and anchor where you will fec great Spots on the Land. Here alfo you muft carry a Hawler a-Ihore, becaufe there are ftrong Flaws of Wind from the Hills.

Oppofite to this Port of Ferol lics the Inand del Santa, or Holy Ifland, a little northerly, and dift. but 1 L. And frond thencero dich Acarma is ro-Is, the Courte N.W. by $\mathrm{N}^{\text {I }}$ and

About a $L$ betore yon come to the Rio Barranca lies $P a$ ramonguilla, a Head of Land which makes at a diftance like a Ship under Sail, and as you come nearer flews like a high white Rock : About a $L$ to Lecward of it there is a low black Point, that looks as if it was cut off right down from the Main; and to Leeward of that there is a large Strand. Here you may anchor, in cale the Current forces you in, in 6 to 7 Fa .

From the Rio de Rarranca, or of the Hillocks, the Courfe is N.N.W. to \%asuey or Hagucy de la Cofta, dift. 9 Ls: The Land appears in Heaps and Hummocks, but low next the Coaft; and in the Middle there is one Hill higher than the reft, call'd the Sievra de Gramadal, on the Top of which are two Cliffs, which make it look like threc Hills, the middlemoft is the higheft, the fouthermoft the loweft, and the northermoft the lealt and round. If the Weather be thick, and you have an Ofling, they make like three Iflands.
from Hagacy de la Cofla tine Shore trends away N. half W. to 'Puerto de Guarmey, dift. 4 L. This Port of Guarmey has a low lat Point on the S. fide of it, and the inland is hilly and mountainous, with Ridges and Hillocks numberlefs juft over the Port; but within the Land are two round Hills thicker and higher than the reft, the northermoft is the higheft by far : The Road is to the Lecward under the low Point, where you may anchor in 7 Fa. keeping a Rock above Water, which you will fee there right a-ftern.

You may go far in if you find the Winds violent, and that your Anchors begin to come home, as often happens here ; but in fuch cale'tis all fafe and bold. If you go farther up, you have 6 Fa Water for fome Ls; you may water with great Convenience, and have all needful Provifions alfo.

Between this Port and 'Puerto Bermejo is the Hill call'd lis Tetas de Bermejo, becaule it makes like a Woman's Breafts: lucrto Bermejo is an Ifland.

The Port of Guarmey is in Lar. 10 d .30 m . dift. from Torto Venais 3 Ls N. and S. If you would go in there, you will fee thole Hillocks mention'd above run as far as the Point C.abefla-Gatto, or Cats-Head: Sail by the Head till you open a finall Bay, and there come to an anchor in 12 Fa. about Musket-1hot to Lecward of the Road is the Creek, where the coafting Barks load; go not cither into the Creek or Bay with a Ship of Burden, for off of the Point there is a large Shoal which will bring you up. On the S. fide of this Cabeffa del Gatto there is a very good Harbour, the Town is within about halt a L. from the Strand.

From the Harbour of Gnarmey to Mongon the Courfe lics N. and S. dilt. 10 Ls; between them lies the lland Puerto Vermejo or Bermejo, 4 Ls dift. from Mongon; 'tis a fmall white Ifland, and in the Midtte lies a Bay, which makes with two Points, call'd Sagietta dela Calcbra, or the Suakes Dart: The Land between"Monson and this Ifland is high and in Hillocks, with large Spots of white Sand; it is call'd an Ifland, but there is no Paffage between it and the Shore, the Shoals are fo many, that fometimes 'tis almon all dry Land.
mavicror about the $v$ Shore.

From this dift.inLs; b are alio feve when youn caule the P approach. forget that fmall Rock land you wi right in, a may go fa will fec gre Hawler a-ll the Hills.

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From this Purt Cazma the Coaft goes away N.W. to Ferol, dift. 1 LLs ; between them is a Harbour calld Guambacho: there are alfo feveral finall Iflands and Bays upon the Coaft, which when you make the Coaft at a diftance, you cannot dificern, becaufe the Points overlap one another, but they open as you approach. If you would anchor at Guambacho, you mult not forget that to windward of the Hill call'd el Morro there is a fmall Rock under Water, and when you are within the Headland you will fee broken Land on your Starboard-fide ; flecr right in, and come to an anchor over-againft a Hill; or you nay go farther up on the fame fide, and anchor where you will fec great Spots on the Land. Here alfo you mult carry a Hawler a-fhore, becaufe there are ftrong Flaws of Wiud from the Hills.

Oppofite to this Port of Ferol lies the Ifland del Santa, or Holy Ifland, a little northerly, and dift. but 1 L. And from thence to del Acarma is 10 Ls, the Courle N.W. by N. and S.E. by S. the Land between all very high. Porto Ferol is a good Harbour, very fafe, and yet large: You go in S.E. till you come among fome fmall Inands which lie in the Middle of the Harbour ; but the Road is all clean and good. There are feveral Mountains over the Entrance, lying up in the Country, whereof one to the fouthward is round and latye, and has feveral Spots upon it, by which the Place is very eafy to be known. Over-againft this Mountain there is a Shoal, but you have no Occafion to come near it.

From the Ifland del Santa to the Port and City of Santa on the Main is I Leag. N.E. and S.W. The Port of Santa is ins the Mouth of a River of the fame Naine, E.N.E. from the I land, and N.N.E. from the Point of Ferol: And from this Porto de Santa to Cape de Cbao, or de Cbau, the Courfe is N:W. the Land lying N.W. and S.E. dift. 6 Ls.
N. B. Cape de Chao is in Lat. 8 d. 35 m .

Before you come to Port de Chao, there lie feveral Rocks along the Shore, call'd the Corcobados, or the Humpbacks; you mult not attempt going between them and the Shore, becaule there are feveral Ledges and Shoals, which will infallibly bring you up: And juft before the Harbour of Porto Santa lics an ifland ftretching about a $L$ in length $N$. and $S$. You may go into the Harbour on either fide of it, and anchor in 7 to 8 Fa. all slean Ground. As you go in you will fec fome Trecs about half a $L$ up, on your Starboard-fide; behind thofe Trecs lies the Town.
N.W. from Cabo de Cliao lies Porto Guanchapo, or Guan: chaco, the Courfe N.N.W. dift. 16 Ls; in the way lics the Illand of Guanape: The Land oppofite to the Ifland is callid the Cape of Guanape, it lies N.W. and S.E. from Chao dirt. 7 Ls. The Cape of Clbao is a high Precipice, with fevcral frmall white Rocks juft before it, which look like Illands; to the windward of it there is a little blackilli Illand, by which you will know the Entrance.

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$\lambda^{2}$ B. If you cene upon this Coaft, you mult make in for the Harbours where you can find them, and according as the Courfe you are ftecring guides you; but you mult not depend upon the Shoalngs of the Shore, for there is no Road or Anchoring pace uponall the Coatt for near 20 Ls. The Head-land of Cimamape is about halt a $L$ round, encompas'd by the Sca: Tho it be calld a Cape only, it is rally andiand, and Ships bound to Traxido trequently palis between the rombl Hill calld d Aorvo de Citmmofe and the Nian: The Chamel moded is not large, but lite and without danger, for all that can hurt you appears above Water: The Coute from hene to Traxido is N.W. by N. From Porto Santa to this Inand of Cimarate is y I.s S.E. And from Gitamafe to P'orto Ciadachaco is 9 L.s N.N.W.
In the Mudway beween Guamape and Guanchaco is a large Bay; and on the Main in that Bay tands a Hill called Morro ale Cavetas, 'tis about the middle of the Bay E. by S. before you as yougo in. The Coaft within the Bay is bold, and theWater deep, the Bottom cican, to that youmay itand in as near as you plate with your Lead; the Land is that and low to the Sea fode; yet you will not chute to anchor in this Bay, unlets obliged to it, for there sines a very rude Sea.

A hatle to the Couthward of this Bay, and without the Cape
 note, with which there is a fimall lland towards the Land, Which alfo may be calld a Rock. Between theic two there is a good Channel; ut not very broad, but tis all cleanand late, and 10 to 15 Fa . Water. Foumay ftecr thro' it with your I cad, going with all imaginable Safety cither one way or other, as the Wind prefents.

From Granchaco the Conft trends N.W. by N. to Parito Malabrigo, dift. ${ }_{4}$ Ls. Guanchaco is the Sca-Port to Tiruvillo, a coofiderable City, which lics tome Ls up the River, and whillmakes the Harbour of Gunuchaco: They are exactly in Lat. xd. S. If you would go in here, keep the great Church ot Tratill open right a head, and the Bell of Truwillo bearng N. N. hy N. and when you find io Fa. by your Lead, wheh you mut heep going, then you are in the fair Ilay. If you ir: und go tarther up, bring la Secra de Campana, a high Hill Wench you will fee alfo within the Land, to bear N.E. by N. and then you are in the beft of the Harbour, and may anchor

$N$. $B$. You muft not neglect to under-run your Cables, and now and then to trip your Anchor; for the great Surge of the Sea which comes in here, brings fuch Quantities of Wecds as will choke and bury your Anchor and Cables allo.
About midway between Guanchaco and Malabrego, there romes in a large River cali'd $R 20$ Chocama, but it is not maviable any length into the Country, nor does it make a good Harbour, the Mouth of it being to wide, that the Sands Bar up the Entrance, and make it too thoal.

From Y'uerta de Malajrigo to Cheripe the Coaft lics fill $N W$. and S.E. dift. it I s, mothing of any great moment be

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The Head-land or hiegh Hill of Maherego us abo a reiy poed Mark at Sca ; 'tis ceen 12 to 15 Ls offi, and is wory high: bring it to bear E.S.E. at the dift of ; to $+\mathrm{l}, \mathrm{s}$; youmay then ftand in with it for the Port. There is gencrally a geat Sca ma the Harbour of Malabrigo, the wefterly and S W. Wads blow. ing right in ; and as they blow hard all the atere part of the Day, the Sca haddy returns to any degree of C.almucti Night or Day. If you come from the teaward, and are bound in at Mahabriso, the Mountam mention'd above is your Mark : you Se it all the way from the Leeward of C'beripe to the WindWard of Malatrizo.

Between this Port of Madabren and Cheripe lies the Coaft of l'aca/mano, or P'ardmano: it is not a Harbour, bat a great Strand flecthing from the Bay 2 Ls to windward of $M / a$ labrieo, to within 2 Ls of Cboripe, being all the way a low find ' Shore, here and there interlperted with Crags and little Hillocks; and within Land there are fome larger Hills called st. Y'rter de Illoqut, and another called the Sugarloaf ot (itadilape, which you will know at Sa by a lietle Break on the top. In the middle of the Strand of l'acalimayo there is one Kock higher than all the reft, clofe to the Shore; to the LeeWard of it you may anchor in ia Fa. Water, and pretty good Ground, compared to the reft of this Coaft, for it is all at beft toul and dangerous, and few Ships care to anchor upon at, becatue the Sca goes fo high, and the Ground is to bad.

For about 3 las beyond Malabrigo there hes a Bay; it begins at the very Poine of this Harbour: To come to an Anchor in this Bay, you muft found all the way, kecping in 5 to 6 Fa . Water as clote up to the Head-land as jou can, only no nearer than $4:$ Pa. andthen bringing the great Break in the Head-land to bear S. from you, there come to an Anchor.

This Hill fipreads far up the Country, and has many Breaks and Hollows in it, which is the reafon that it fends down conflant Flaws and Gufts of Wind towards the Sca, which make the Road more dangerous, for it canles a great Sca in the Otfing. The Land to the northward of the Road is broken and ragged, but in the middle of it you will lec a round Hill, which is the rruc Mark for your Entrance into the Habour.

The Harbour of Cheripe is a beter Shelter to the S.ailors than any of thofe Bays or Ports to Leeward of it: When you come from Calian, if you would go in here, keep to Lecward of a low Point, which makes at dift. like an Mland, and looks black. If the Weather beclear, you will make the Town of Cheripe, as you open the Harbour, or the Church at laft, tho youre off at Sca 3 Ls.

Oblerve alfo, that from the windward Point of the Harbour there runs off a Shoal, which ftretches out more than halfa L to Sca, with a l.edge of Rocks alfo at the cod of it ; fo that you mult kecp in 8 Fa. by your Lcad to go clear of it. When you are paft that dangerous Shoal, bring the Church to bear S.S.E. and run in right with ir, then you will fee a great Crofs, bring the Crofs due S. and there youmay anchor in 7 to 8 Fa. a very good Road and clean Ground.

$\lambda$. $N$. Voumult not neglect to under-rm your Cables, and now and then to trip your Anchor; for the great Surge of the See which comes in here, brongs fich Quantitics of Wecds as will choke and bury your A nehor and Cables alto.
About modway between Gitameharo and Malabres", there romes in a large River called $R$ oo C/beama, hut it is not na. viable any length into the Comery, nor docs it make a good Hasbour, the Mouth of it being to wide. that the Sands bar up the fintrance, and make it too thoal.

From y'uevia de Malabriso to Cberepe the Coaft lies Anid $N W$, and S.E. dift. 11 Ls, nothing of any great moment betwecn, but the Marks for the Coalt, which are inded very particular all along from the Ciabo ric Charo to Malabrigo, to that you cannot millake the Coaft.

The high Rock of Guatape, and the Morro Malabiso Which is alfo very high, may be deftinguifh'd at Sca by their learings; they lic with one another N.NW. and S.S.E. no other Hills, tho there are many upon the Coaft, having the tame Situation. There is good anchoring under the Lee of the Pock of Gitamapo, in a little landy Creck having 7 Fa . Water, abonst two Muskethot from the Shore.
N. B. If your Boat gocs up the Creck for frefl Water, it mult be with the Flood, for the Frefles of the River have catt up a Shoal like a Bar thwart the Entrance, fo that even a fimall Boat will be aground upon the E.bb.
Coming inf for this Coaft, the next Mark you make out at $\mathrm{S}_{\mathrm{s}} \mathrm{a}$ is the Fitil of Truxillo: Firft in the Offing you fee a great Momenain, or rather a Ledge of Mountains, lying to the Lecward of Grtarichoco, and ftretching on almott as far as 'Porto Sanct, ; the hoheit Picocs of them at the windward Point are your Direction for the Harbour of Truxillo, for they ftand as 1t. were directly over the Town; and when it bears E.N.E. from you, then you are to windward of Truxillo. Next to thele Mountains you have the great Bell of Truxillo, a thick high Mountain which makes at Sca in the Shape of a Bcll, and 15 thercfore called to.

When this Be/l of Truxillo bears N.E. dift. 4 to 5 Ls from the Shore, it thews high and ragged on the rop; if it tears S E. 'ris fhap'd like a Sugar-Loaf, and bearing N.N.W. At a greater dift. it makes like a Bechive. This is to liure a Mark to know the Coalt by, that you cannot cafily miftake.

If you would anchor any where on this Coaft, it muft be with the utmoft Cantion, and with Lead and Line in hand; and when you are at an Anchor, ride there as litele as youcan, for the Sca gocs always very high, and the Shore is very toul and rocky.
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it mult bc c in hand; as youcan, is very toul
myen, ont mit the mbate of it gon will tec a round Hill, which is the erue Mank for your Lantrance into the Habour.
'The Harbour of Cheripe is a better Shelter to the S.itors than any of thote Bays or Ports to Lecward of it : When yous come trom Callan, if you would go in here, keep to I.ecward of a low l'oint, which makes at ditt. like an Illand, and looks black. If the Weather be clear, you will make the Town of Cherepe, as you open the Harbour, or the Church at leaft, tho youare off at Sca 3 I.s.

Obterse alfo, that from the windward loint of the Harbour there rans off a Shoal, which ftretches out more than halfa L to Sca, with a Ledge of Rocks allo at the end of it ; fo that you mult kcep in 8 Fa . by your Lead to go chen of it. When you are pait that dangerons Shoal, bring the Church to bear S.S.E. and run in right with it, then you will fee agreat Crofs, bring the Crots due S. and there youmay anchor in 7 to 8 Fa. a very good Road and clean Ground.
N. B. Puerto de Cheripe is in Lat. 7 d .5 m . dift. from $\mathrm{Pa}^{2}$ cofimayo 6 LS, the Courte N.W. and S.E.
From the Port of Cheripe for 2 I.s northward, the Shore lics all in broken Sand-Hills, to a Place called Mlocupe or Mo$\approx u p e$, being all rough, the Land higher towards the Coaft than farther inward, and a Mountain particularly higher and longer than the reft, ftanding about half a Lup the Country, and making in different Shapes according to the differing Polition you lee it in. From thele broken Grounds the Courle lies W NW. L.., 4 Ls to the Hill, which the Spaniards call Morro Etin, to the northward of the Hills of Mozuped: and before you come the length of Morro Eitin, there are leveral Lagumas or Lakes of frell Water, you may find them hy the high broken landy Banks a L to windwad of them; but except Necellity drive you, it is not worth while to fetch Water here ; for befides the length of the way to the Lakes, the Bay is a very ill Place to ride m , and there always gocs a great Sc.a in ir.

From the Mountain of Cheripe, as deferib'd already, the Courle lies N. by W. but the Conift trending N.W. to the Lat. of 6 d . thrults out to Sca due W. for 2 Ls and more to Cape Algu$j a$; to that the Cape, and the Land 2 L.s within it, lics in the lance Latit.

From Cberipe then to Tunta di $A_{i}{ }^{\prime \prime \prime}$ is 28 Ls. thus: from Cboripe to the Hills of Moznpa z Ls, from thence to the Morro de Etin 7 Ls, and thence to Punta de Agufa 19 Ls. In your Courle toward Aguja you have before you the Hill Requize, which is high, ragged, and broken on the top, ha. ving on the S. fide a Spire or Pico like a Sugar Loaf. If you come from the feaward to make Cheripe, and the Current or Calm, or both, fhould drive you into the Bay, you will there difcover another thick high Head-land directly over the Morro Eitill, which may be tecn ro to 12 Ls off at Sca. If you are much to Lecward, you will have the Hill Requene as above to the louthward, making a Peak; then the northermolt Hill will fluw

## Sailing Directions for the Coaj

thew it felf like a long Table, and within it a little Mountain up the Country.

From hence for ${ }_{19}$ Ls the Coaft is all low and flat, particularly from Morro de Etin to Cape Aguja, 'tis all a low Shore, no Highland to be feen from the Headland to the Point it felf. Off at Sca in this Bay you will find two lllands of the fame Name, that is, they are both called the Illoas des Lobos, or the Iflands of Sea-Wolves: they are diftinguill'd in the Spanifh, Tonguc by thcir Situation, Lobos de Barlevento, and Lobos de Sotovento; that is, the Windward and the Lecward I Jlands of Sea-Wolves or Scals.
N.B. The Lobos de Sotovento is to Leeward, about 2 Ls in Circuit, low, with fome high Rocks about it, and dift. from Cape Aguja 5 Ls. Lobos de Barlevento is abour 7 Ls from the other; they need no Defcription as to the Navigation, ouly to keep off from them, according as you are bound in to Leeward or to Windward.
The Cape $A g u j a$ is a double Point alfo; one is called $A_{g} u-$ ja Sotorcuto, that is, the Leeward, and the other Aguja Barlevento, or the Windward; and they lic 4 Ls dift. from one another N. and S. being high Land tapering away to Windward down to the very Sca fide. Ships fhould be very careful not to come near this Windward $\mathbf{P}$ ant, for it is very dangerous, and has gencrally a tumbling Sca upon it.

From this Cape Aguija lics another Ifland de Lobos, or of Scalr, which is called Lobos de spayta: From this Lobos de Payta to Port Payta is 11 Ls , the Courfe duc N . forming a large Bay called the Bay of Cecthufa, from the Town of Cectbufa which lics due E. from the Inand, upon the oppofite Shore: alfo from the faid Puerta de ${ }^{\text {Pa }}$ ayta to Cecbufa is $10 \frac{1}{2} \mathrm{Ls}$ S. E. and from the T'own of Ciccbulfa out to Sca to the $1 / / \mathrm{l}$ e of Lobos is 1 I Ls duc W. fo that the 3 Points of Payta Lobos and $C e-$ chufa, make a Triangle almof equilatcral.

All the Bay is flat, but deep Water and clean Ground; and if there be occafion either on account of Squals or a rolling Sea, Ships may take Shelter down in the Bay, efpecially to the Leeward of Cape Aguja, where there is a place or two to quiet, that they may walh and tallow with all polfible Safety.

The Lobos de Payta is a fimall round Ifland, the Coaft not high, but very clean Ground round it, and clofe to it ; the Bight within it is called La Eucauada de Cecbufa, being the fanic mention'd above.

Duc N. from Lobos de Payta lies Perna Orodada, dift. a Ls; and from thence to $P$ ajta 2 Ls more N. by E. Here comes into the Sca, at a large Opening, the River Coquimao, or Clouquima; the Eutrance into which makes the Harbour of P'ayta: The River is large, but not navigable for great Ships far in; allo the River Cottoma emptiss it felf at the fame Mouth into the Sca.

From the Harbour of Payta to Cape Blanta the Courfe is N.W. part of the way, viz. to Punta Parina, and then due $\mathbf{N}$. and S. to the Cape : the Land from Payta to 'Punta Parina is a large Bay, low Land, with fome white Hills all the way; but take care of coning into it, for befides its being fubject to dead Calms, there are alfo many Shoals thrown up by the Frchles of the River nam'd above. From that River to the

## ms for the Coafts of Chili and Peru.

d flat, parti1 a low Shore, e Point it felf: Is of the fame Lobos, or the a the $\$$ panijh to, and Lobos ceward IJlands
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Ground; and Is or a rolling pecially to the $r$ two lo quier, Safety. the Coaft not ofe to it ; the ra, being the
dia, dift. a Ls;
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2 the Courfe is , and then due Punta Parina $s$ all the way; cing fubject to wn up by the t River to the

May to Novenber there blow very hard Gales, gencrally from the fame Point, that is, from berween the S. and S.W. and when it blows thus againft fo A:ong a Current, it mult neced: farily raile a violent Motion in the Sea: But you may come as near the Shore as you will, for 'tis all fteep; and here are fe. veral Points and Bays, which run one within another, and break off the Violence of the Waves.

From Cape Blanco to Santa Clara the Coaft trends away N.E. but as Saitta Clara is an Ifland in the Mouth of the Etitrance into Guyaquil, and fo lies off fome Ls from the Coat. the Courle from Tombez, which is Midway from Cape Blilu:", lics N. by E. and N.N.E:

The Mountains of Tombez begin about 2 Ls to the fouthward of Pannta del Mero, dift. from Cape Blanco :o Ls, and to Tombe 2 Ls more: the Courfe to the firt is N.E. and then due N. and S. Along great part of the Coaft you have double Land, and about Midway very high Mountains: thefe Mountains lie from the Coalt high up the Country, and are called LaSierra de Mancora. Under that part of them which lics next the Sca, there is a fmall Bay with a white fandy Coaft: to the fouthward of that Bay lies a high Point, and a little to the Lecward of that Point another very fine curious Bay, where is fafe anchoring in very good Ground, and what Depth of Water you pleafe.

At the other part of that high Shore comes in the River of Tombez; the Mountains of Tombe: run along the Coaft. till you come to a low Point called Putita de d Mero : then the Land next the Sca is low and flar, tho the Country within is high and momeanous. The Channel is known by a Trec high than any other in all the Country, and which ftands juft at the Entrance of the River.
If you would go in here, be careful not to come too near the loweft Point of the Entrance, for there is a Shoal which fhoots out from that Point, and runs above a $L$ into the Sca.

From the River of Tombez to the Ifland of Santa Clima is 6 Ls. fome fay 'ris but 4 Ls; the Courfe N.N.E. in which Courte you neceffarily crofs the River of Guyaquil. The Iflaid is caly to be $\mathrm{knr}^{-1}$; it appears like a dead Corps extended at full length, therefore the Spaiiards call it Morto: it is about 2 miles in length, dift. from Gryaquil 27 Ls. The Mountains of Tombez are feen far out at Sca, io Ls beyond the Illand of Santa Clara.

The Courfe from the Inand of Santa Clara to the City of Gayaquil lies E.N.E. elpecially from Point Arena in the Illand of Puna, which is within the Mouth of the River. Great Ships can not pais between Santa Clara and the Inand of 'Tuna, becaufe there are feveral Shoals caft up by the Frethes which come down from the Mountains by the Channel of the River. It is truc, there are fome Channels large enough, which have a fufficient Depth of Water in them; but nonc ought to venture among them, who are not thorowly well acquainted.

Therc is a Shoal of Sand about halt way within the River up to Punna; it reaches near Mid-Channel over on the fide of the Ifland, and is difficult to avoid, unlefs you have a commanding Gale to keep in that Channel, which is uearelt the

Sca, Ships may take Shelter down in the Bay, elpecially to the Leeward of Ciape Aguju, where there is a place or two to quiet, that they may walh and tallow with all polfible Safety.

The Lobos de Payta is a fimall round Ifland, the Coaft not high, but very clean Ground round it, and clofe to it; the Bight within it is called La Eucanada de Cechufa, being the fanic mention'd above.

Duc N. from Lobos de Payta lics Pena Orodada, dift. 2 Ls; and from thence to Pafta 2 Ls more N. Ly E. Here comes into the Sea, at a large Opening, the River Coquimao, or Cbuquima; the Entrance into which makes the Harbour of 'P'ayta: The River is large, but not navigable for great Ships far in; alfo the River Cottona empties it felf at the fame Mouth into the Sca.

From the Harbour of Payta to Cape Blanca the Courfe is N.W. part of the way, viz. to 'Punta Parina, and then duc $\mathbf{N}$. and S. to the Cape : the Land from Payta to 'P unta Parina is a large Bay, low Land, with fome white Hills all the way ; but take carc of coming into it, for befides its bcing fubject to dead Calus, there are alfo many Shoals thrown up by the Frcllies of the River nam'd above. From that River to the Town of Payta it is 3 Ls; the Land looks white, with fmall Hills, and in fome places is double: The Marks for this Port are feveral ragged Mountains juft over it ; but the Land to the Harlour fide is low. Beware of Flaws from thofe Mountains, as you enter in: when you are in, you have 8 to io Fa. juft againtt the Houfes of the Town; and good Ground to anchor in.

The I.and is much the fame beyond Point Parina; there's a Shoal facing that Point on the windward fide, and the Land is low there; it makes like e Iflands: you may anchor under the Lee of the Point in $1_{2}$ Fal. the Country within is very high and mountainous. In the Midway from the Point to Cape Blanco there are feveral Coves and Bays, as Malaca and Talara or Farala; this laft is a good Harbour, and gocs in under a bluff Point, with a white craggy Rock, which ftands over it like a Precipice: Tho the Harbour is good, yet no Ships frequent it, only Barks to load Salt; you may indeed take Shelter there upon occafion, if the Winds and Currents force you down; but then you mult ride as it were upon Life and Death, with 3 Anchors out at atime, one to the fouthward, another to the S.W. becuufe of the many hard Syuals from the Shore, which come down cvery day atter iz a Clock, and laft till Sun-fet; and another Anchor to the N.E.'on account of the Land-Breczes. You ride herc in about 12 Fa. Watcr, but take care to allow for a Shoal clofe under the Point on the Leeward fide.

Cape Blanca is a high Cliff, known by a great white Spot on the Rock clofe to the Watcr's Edje. Juft under the Cape on the Leawad fide, there is a finall Bay, where there is good anchoring in it Fa. clcan Ground, and (which is rare for this Coaft) a quiet Sca: alfo here is good Filhing, which makes great numbers of Barks and Shallops frequent the Place. The Cape lics in Lat. \& d. cxactly.

On all whis Coalt the Cunener runs to windward, and therefere it mant makc a treat Sea, becaule almoft all the Scalon from
clpecially to the ce or two to quict, ble Safcty. nd, the Coaft not clole to it ; the cbufa, being the radada, dift. 2 Ls; E. Herc comes ver Coguima, or s the Harbour of ble for great Ships at the fame Mouth
lanca the Courfe is ina, and then due a to P 'unta Parina Hills all the way; its bcing fubject to hrown up by the that River to the white, with fmall Tarks for this Port the Land to the thofe Mountains, ve 8 to $1 \circ$ Fa. juft Ground to anchor
t Parina; there's de, and the Land is y anchor under the in is very high and int to Cape Blanco and Talara or Fa:s in under a bluff tands over it like a no Ships frequent d take Shelter there force you down; and Dcarth, with 3 rd, another to the the Shore, which d laft till Sun-fet; fthe Land-Breczes. c care to allow for fidc. reat white Spot on under the Cape on icre there is good ich is rare for this ing, which makes it the Place. The
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6 Ls. fome fay 'tis but ${ }_{4}$ Ls; the Courfe N.N.E. in which Courfe you neceffarily crofs the River of Guyaquil. The Innad is caly to be known; it appears like a dead Corps extended at full length, thercfore the Spaiiards call it Morto: it is about 2 miles in length, dift. from Guyaquil 27 Ls. The Mountains of Tombez are feen far out at Sea, io Ls beyond the Inand of Santa Clara.

The Courfe from the Ifland of Santa Clara to the City of Guyaquil lies E.N.E. efpecially from Point Arena in the Illand of Pulua, which is within the Mouth of the River. Great Ships can not pais between Santa Clara and the Inland of $T_{U} \mathcal{L}_{-}$ na, becaufe there are feveral Shoals caft up by the Freflhes which come down from the Mountains by the Channel of the River. It is true, there are fome Channels large enough, which have a fufficient Depth of Water in them; but none ought to venture among them, who are not thorowly well acquainted.

There is a Shoal of Sand about half way within the River up to ${ }^{2}$ Putua; it reaches near Mid-Channel over on the fide of the Ifland, and is difficult to avoid, unlefs you have a commanding Gale to keep in that Channel, which is neareft the Main. This is on the Starboard fide as you go up: and there are gradual Shoaliags on both fides, cither to the Shoal on the Larboard fide, or to the Main on the Starboard, keeping in from $_{4}$ to 7 Fa. The Courie clear of all is N.E. up the Channel, bearing about 2 large Ls off of Point Arcua, where it is bold, and fo quite athwart, till you get 2 Ls higher than the Point.

When you come againft, or a little above a chalky Cliff, near the upper end of the Inland of Puna, you muft haul over for the Illand, and come to anchor before the Houles. That high Point is eafy to be known, becaufe all the other Land on the Illand is even with the 'Water, and elfewhere is all veergrown with Trees: the ouly Channcl for Ships is under the Starboard Shore. Tis 8 Ls from the Point Arcua to the Town of $P_{\text {tunn, }}$ which lies on the upper end of the Illand.
'Tis certain great Ships may go quite up to the Town of Guyaquil, becaufe they build Strips of 400 and 500 Ton at the very Town.

From this Ifland of Santa Clara in the Offing of the River of Guayaquil, to the Point of Santa Helena, the Courfe is N.W. croling the Mouth of the River Guyaquil: Punta de Santa Helcula lies in Lat. $2 \mathrm{~d} .15 \mathrm{~m} . \mathrm{S}$. There :s a little Town jult upon the very Point, and you may come to an Anchor right againft it, in fight of the Houfes, in 4 Fa. bu: then your rid: there without any Shelter : but about a L and $\frac{1}{3}$ from that Point there is a Harbour, where you have good Anchoring, and the Land low and flat to the Shore.

Between the Mouth of the River Guyazuil and Poizt Ste Helena there is a large Bay called the Bay of C'bandury. ditt. from the Illand of Santa Clara 12 Ls, and from the Point of St. Helena 8 Ls. The Courfe from the River of Gusaquil is W.N.W. Over Chanduy you will fee fome high Hills, and Brcaks upon them, and a little to "indward of thole Hills you will fee, if you are within the B.ay, the Illand Phun, and the Mouth of the River Giy iquil on that fide of the Mhan!.

Three Ls to windward alfo of the Point of St. Helena is the Point del Carnero, with fome Rocks like hetle liands lying clofe under it.

At this Point of St. Helend you may have all necefliary Refreflments even for a long Voyage. The Point it telf is high, but as you come nearer to ir, you will fee a lower Point run out tharpning towards the Sca.

Three Ls to I.ceward of Port St. Helcma is a little Ifland, with a Rock upon it, called Colanche. The Courte from the Point of St. Helena is N.E. There is oppofite to it on the Shore a River of the fame Name, where there is frefl Water, which is frequently taken uphy loats from st. Helema, for the whe of Ships as they ride there under the Point. Ships may pars between the littic mand and the River, or on any fide of it, the Ground is all clean. and deep Water io to is Fa.

From this River of Cohanche the Coaft trends more to the N. and the next Place of note is the Illand of Solungo: The Courte is N. by W. and the dift, abour 7 Ls. The Land is middhag next the Shore, but tery high within the Land, being thole Hills which they call the Mountains of Picofa, or Plicina, which hold on S. to the very Bank of the River Colanche. You will know the Coaft by thete Hills, which you will fee a great way off at Sea ; where you will perceive them narrowung away to a Ridge = Ls fhort of coldmebe, and where allo you will fec litele high Rocks or Inlands called Los Aborcados, or the Hans'd Men.
Due N . irom this Inand de Solango the Coaft trends away to $\mathcal{P}^{2}$ ort Callo, the dift. + Ls. Between them are two Harbours about a $L$ diff. from each other; they are known by fome white Cliffis which fland jult between them : the Leeward Port is the deepeft Water; there are Provifions to be had at cither of them, and Shelter from fouthorly Winds. From this Port Callo to the Ifland of Plata is about 4 Ls N.W. byW. fo that from 'Pozit St. Helena to the Illand la Plata is 18 Ls N. by W. but if you go in by the way to the Bay and Roads of Colamere, Callo, you make it $=0$ to 2 Ls , and vary the Courle allo.

From Port Callo the Coaft flretches on N.W. to Cape St. Larenza, or St. Laシurcnce's, dift. 6 Ls , the Ifle ia Plata Wing from it S.S.W. abour 4 Ls . The Ifland la Plata has on the S. teveral fmall Rocks; when it makes at a dift. in the Offing, is fems round and high, and as you approach makes like two Iflands, but when you are near, proves to be but one. When you have Cape St. Lawuence S. from you dift. 4 L.s, the two Rocks without it bearing S.W. you will fec Ilha do 'Hlatu tair betore you, Lat. id. 10 m . All the I.ceward part of it is sery clean Ground, and no manncr of Danger any where about ir, 'tis about ${ }_{4}$ Ls SS.W. from the Cape.

FromCiape Lorenzo to the Bay of Caracas the Courfe is NL. and E.N.E. dift. 17 Ls. In the Midway lies the Harbour of Mhama, ditt. from Cape St. Lazuruce 8 Ls, the Couric E.N.E. From Lorerizo to this Harbour the Land begms high, but falls gradually to withun a L of the very Harbcur. Upon this Coaft

## Pirectioiss for the Coafts of Chili and Peru.

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11 necciliary Rcth it delf is high, ower Point run
a little Illand, Courlic from the fite to it on the is frcflh Water, Helcisa, for the nt. Ships may $r$ on any fide of to 15 Fa . nids more to the fi Solungo: The hc Land is midthe Land, being 'icofa, or l'ifict River Colanche. h you will fee a cthem narrow. and wherc allo Los Aborcados,
trends away to re two Harbours known by fome he Leeward Port be had at cither From this Port W. byiW. fo that Si 8 Ls N. by W. oads of Cothuche', vary the Courfe

IW. to Ciape St. he Inc ${ }^{2} \times P$ Plata la Plata has on a dift. in the Ofroach makes like oves to be but from you dift. + you will fec Ilbsd All the Lecward r of Danger any Cape.
as the Courfe is lics the Harbour the Court E.N.E. ns high, but falls Upon this Coaft

Shore; but kecp to windward, and fo run up chere an loand the white Hillocks of C/onopth, and then along the Coaft into the Bay, carrying an cafy Sail, and not ruming into lels than + to + far by your lead.

When you are in the Bay, you have all dead Water, neither Wind nor Sca can give you the leaft Difturbance : B hen you come out, youmay kecp to I.cowad, ruming along clole to the l.and which lics out towards Cape "Pollode, where yon have Water enough clofe to the Shore. You have Wood and Water alfo in this Bay, and plenty of Cattle and Shell. Fillh.
N. B. You fhould be carctul to kecp your Lead gomg, as woll at your coming out of this Port, as at your going in.
Cape Pallado is high double Land, full of low Greens on the top; tis feen far at Sea: Jutar the very end of the Cape it forms a little upright Hollow, with Crags, which at a fmall diftance looks like a Saddle. At about 6 I.s from the Priut there is a mall white Cliff called Cabo Bahuen, or IH Bate Colis Near the Point there is a fimall Bay with Eeveral Hillock, to I.ceward of which hes a little Harbour; the going in is known by thote Hillocks: if you are to windward of the Cape, and would come to an anclior, you mult kecp about 4 Musker-fhot from the Shore, and drop your Anchor juft betore a Crofe, which you will fee fet upon the Land: There you will haves to io Fa. and you thould come no nearcr. Capi' Palfidd hes in Lat. 8 m . S .

On the Shore you will find 2 Watering-places; one runs into the Sea among the Rocks, and the other is a Laybmiz or great Pond, about ; or 4 Musket-Shot from the Shore.

From Cape Paflith the Land makes a deep Bay, bearing in firlt N.E. by E. and N.E. and then fuddenly rending off aum N.W. to Cape Ficancis, or Cape Porfette; the Eyuator paiting over the very bottom of the Bight, in the Nidway, by the Barrancas V irmatlate, or the Red Hills, which however are mixe with white, fo that at Sca they make like Hills of Salt. If you would water here, you may rom in with thote Hills: leave, of them to I.ceward, and come to an Anchor about Musker-Shor from the Shore, there $y$ - will find good clam Ground and ${ }_{1}$ fa. Water. On the broken (irounds ane f veral Lagumas, which furnilh Water all the year, tho exactly under the Eiquator. From Cape 'l'allacto to thete Hills is io Ls all N.E.

From Cape Traflicho to Cape St. Frances the Courfe is N. by E. dift. 22 Ls in a direct Run. The decp Bay mention'd above reaches fromCape to Cape; it is a very difficult and dangerous Bay, full of Shoals. Five L.s thort of the Cape is Porteric, or as lome call it PortP'Petit, or Little'Port; the Courle betwen lies N.W. and S.E. the Anchoring is in 5 Fa, near the Headhund, but you mult found all the way in, becaufe of fome Sand Banks in the way, called allo the yortetes: mear the Head-land you may have freflh Water fufficient.

The Wind at the Cape generally blows hard from Noon to Night, and then grows calm, clipecially from Mav to Wector ber. The Land at'Port Pettit is high, and then falls away to the
allo.
From 'Port Callo the Coaft flretches on N.W. to Cape St. Larenzo, or It. Laiurence's, dift. 6 Ls , the lifc la Plata lying from it S.S.W. about 4 Ls. The Illand la Plata has on the S. feceral limall Rocks; when it makes at a dift. in the Offing, it feems round and high, and as you approach makes like two llands, but when you are near, proves to be but onc. When you have Cape St. Laurence S. from you dift. + Is, the two Rocks without it bearing S.W. you will fec $1 / l$ bu di 'Hlath thir betore you, Lat. id. io ml . All the Lecward part of it is very clean Ground, and no manner of Danger any Where about it, 'tis about ${ }_{4} \mathrm{LsSS}$ S.W. from the Cape.

Irom Cape Loremzo to the Bay of Carieas the Courle is N.E. and E.N.E. dift. ${ }_{7}$ I Ls. In the Midway lies the Harbour of 1 I. an:a, dift. from Cape St. Laurences Ls, the Courfe E.N.E. From Lorer:20 to this Harbour the Land begons high, but falls gradually to within a L of the very Harbour. Upon this Coaft Midway between St. Lorenzo and Manta, there fhoots out a, Point, off of which lies a Rock, and fome Shoals without the Rock, which muft be avoided. A little to Leeward of the Cape there is a Bay, in which there is allo a Shoal which runs out a 1 . from the Shore; between that and the Cape are two Rocks called the Frailys, or the fryars, one bigger than the other, and both fteep; but you may go clole to them, there is no D.nger near them. 'The Cape is alfo high and fteep, but a clan Strand under it, and no Danger.

If you would go into the Harbour of Manta, you muft be very cuutious. and keep your Lead and ine in Lhand, becaule of a Shoal which lics jult at the Entrance : to avoid it, obterve a little Mount called La Sierrillo de Craze, or the Little Hill of the Crofs, which you will fec jult betore you: bring this Momthin to bear orer the end of the Town, and you go in clear of this Shoal. Then you may anchor where you pleate in 7 Fa . kecping the Church S.W. from you.

On the S.W. fide of the Harbour of Manta the Land falls low. Two Ls to the northward of Manta is a low Point, called El Punta de Camer: if you would go about it, you muft fland off, and give it a large Birth, for there is a great Shoal before it, which is very dangerous; you may know it oliat Sa a by the Mountain called Monte Chrifto, which almoit every body knows by that Name, which lies a little to the fouthward, a very bigh and broken Iand, and render'd remarkabie by Sailors for its Name and Shape. Allo in the Country, dircetly over Puint de Cames, there is another very high Piece of broken Land.

All the way between thefe Ports or Harbours and the Bay of Caratar, the Coaft is full of high Land, with broken Cliffs and white Hillocks, as far as the Rio de Cboropota. From rhis Bay of the Carracas to Cape Palfiedo the Courle is N.W. with white Hillocks, the dift. \& Ls. You mutt not go into the Bay of Ciarracas to Lecward, becaute there are Sheals in the middic of the Entrance, which reach over almoft to that
N.W. to Cape St. the Ifle la P' luta 1 la Plata has on It a dift. in the Ofproach makes like roves to be but S. from you dift. + - you will fec llbsic All the Lecward acr of Danger any he Cape. cas the Courle is $y$ lics the Harbour , the Courle E.N.E. fins high, but falls Upon this Coaft there ihoots out a, hoals without the o Lceward of the Shoal which runs the Cape are two ne bigger than the to them, there is h and fecp, but a
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bours and the Bay nd, with broken - Choropota. From the Courte is N.W. uft not go into the e are She als in the er almoft to that

Musket-shore from the Shore, there you will find yood clean Ground and if Fa. Water. On the broken Grounds ate feveral Lagumas, which furnifh Water all the yenr, tho exactly mider the Equator. From Ciape W'alfato to thete Hills is 10 Ls all N.E.

From Cape Tadfide to Cape St. Frances the Courfe is N. by E. dift. 22 L.s in a direct Run. The decp Bay mention'd abovic reaches from Cape to Cape; it is a very difficult and dangerous Bay, full of Shoals. Five Ls thort of the Cape is "Portete, or as fome call it PortPet it, or LittlePort; the Courfe berwen lies N.W. and S.E. the anchoring is in 5 Fa. near the Headland, but you mu!t found all the way in, becaufe of fome Sand Banks in the way, called allo the Porteter: wear the Head land yoir may have freflh Water fufficient.

The Wind at the Cape gencrally lows hard from Noon to Night, and then grows calm, clipecially from diay to " Oecom, ber: The Land at Port T'etit is high, and then talls away to the fouthward, and continucs fo as tar as the Mountains of $S_{t}$. Than de (.) uaqu:' From thofe Mountains there run in three finall Rivers, called the Cowines, or the Cojimer, from whence there are 3 Flats or Shoals, which run tar out into the Sca: at the end of thole Shoals are feveral fimall Iflands, but come not near any of them, for they are all foul and dangerous; 'tis likewile ill venturing to come near any part of the Coaft in the Bight, for if a Calm comes on with the Tide of Flood, as frequently happens, you will be driven into fome of thofe Rivers.

We are now crofs the Line to the northward. From Cape St. Francis the Coaft gocs on duc N. to the Pamta Cialicra, dit? - L.s; and being in Lat. id. N. you are but juft cle.re of the grear Bight mentioned above, when doull) ling the Cape the Coalt trends again N.E. to the Bay of Tacames, dift. from the Point ${ }_{3}$ Ls. At Tatames is good watering, and you may anchor at the Entrance under a fimall Rock, where there is a good Road, and well fhelter'd.

From Pumtade Ciclena to the Bay of St. Mattheo the Conft ftretches in N.E. by E. dift. 6 I.s. The Point of Galeia runs far out, fharpuing from Tacames, running crols to it from St. Matteo. The Point looks like a Galley turnd keel up, the Point flaping the Beak of the Galley. You may melhor half a L to the Leeward of the Point, kecping a little of becaute of fone Shoals, which lic on that fide under Water. There is Water in a little Brook within a Wood, at a dift. from the Road, but it docs not run down into the Se , except in the rainy Winter Scafons.
From St. Mattorew's Bay the Coatt lics N.N.E to St. Ia;o, dift. 5 to Ls: the Land is high, with hollow red Crags. Here are feveral Points on the Coaft ruming out, which form good Retreats for Ships driven in by hard Squals and Flaws trom the Hills, and by the Sca ruming high, as often happens: in lich cate you may anchor all the way between the Bay of St. Ahu-
 Fa, Watcr.

## Sailing Directions for the Coaft

If you are bound into the Bay of it. Mattioco, keep clole to the windward Crag;, that the Ebb may not drive you out, or horte you upon the Shoul which is at the Mouth of it. If you come to an Anchor there, do not ride in lefs than 7 Fa . If you do not find it in the Bay, fend your Boat into the Mouth of the River, there you will have as much more às you want.

From the Rio de St. Yaro there rums in a large Bay called the Auco:! ac Surdinas, or the S'ea of Pilchards, and reaching almolt to the Point de Manglares, or of Mangroves. The Courle of chis Bay in a Line is N.E. and S.W. and the diftance from Pomt to Point is 15 Ls. There is 5 Fa. in the Channel of the River de st. "\%go: it is fituated in Lat. I d. 20 m . N. the Coatt peopled by Indians unconquer'd, whoare yet very ready to affitt Lurof'cun'Ships, and fell them Provifions.
N. li. Ships come hither from the building Ports touthward to load C'cdar for the Shiporights : allo Ships in diftrets may be furnith'd here with 'Topmalts and Spare Yards.
The Kio de St. Fago is a large navigable River, the Channel deep, and able to carry Ships of Burden feveral Ls up : about 7 Ls from the Sca it divides it felf, and forms a large llland 3 Ls broad: The largeft Branch of the River, and belt Channci, is that on the $S$. fide of the Ifland : Both Channels are very decp, but the Mouth of both fides is to choakt up with Sand and Shoals, that nothing ean pats above the Iflaud, hardly a Canoc.

The Mouth of the River is a L wide; the Stream runs ftrait and tivift, and the Tide flows in about 3 Ls: The Stream is different in the different Seafons; and as the whole Country is fubject to great Rains, to in the rainy Seatons the Freflecs are to great, that there can be no Navigation at all. There are fel cral grear Shoals lie off the Mouth of the River, but they are dificover'd by founding. One of thofe Shoals runs near 2 Ls out, on which the moft famous Spanifl. Pilot 'Pbilippi de Corca wasitranded, and loft his Ship Ann. 1594.

From Point Manglarcer, being N.E. from St. Jago, and crols the Bay of Pilchards in a direct Line, you may be faid now to open with the Bay of 'I'anama, which lies from this Point N. by E. but as the Coaft trends away firf N.E. to Bonaeceitare Bay and Cape Coricutes, we muft follow the Land as it lics.

From Punta de Manglares, or Mangrove Point, to the Ifle of Gorgona, is 35 Ls , the Courle fair N.W. 'Tis a wild undifcover'd Coaft, inhabited by Savages, who make War, not Trade their Bufinets, and Ships have little occafion to come among them: We fhall therefore take notice rather of the Mlands than the Continent. Tie Mlands in the Courfe between Alangheres and Gorgona are, 1. Gorgonilla, a timall Ifland with a Creck, called by fome spaniards Tumaco, where you may have frefh Water, and may anchor while you fetch it in clean Giround and well floclter'd; it lics N.E. from Point Manglares about 3 Ls. 2. Gallo, a larger Ifland, lying in the fame Courle N.E. from the Point Manglares, and dift. 9 Ls.

From the Illand Gallo to Gorgona is 24 Ls , the Courfe E. by N. The Coaft on your Starboard fide is all low Land, full of Rivers from the Land, and thofe Rivers occafioning feveral
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very way a Mountain, and floapivg away on all fides to the Sca.

If you would anchor here, chufe the S.E. of the Ifland, but then keep off of a little Mland which flews it iclfethere, and a Parcel of Rocks above Water, which you will fec by it on the fide next the Main. There is frefl Water at a fandy Shore. on the E. fids, but'ris bad Riding to ftay for ir, being in 50 Fa . near the Shore, and a very dangerous Anchorint place, with the Wind foutherly, clipecially at S.E. which blows right in: The Ifland lics off from the Main duc N. dift. + Ls, oppoite to a River of the lame Name, Gorgona.

From the Offing, when the liland bears from S.E. to N.E. it fhews with 2 Breakers; next the N.E. Point it is lower; to the S.W. it makes a thick bluff Head-land, and in the middle forms a round Peck, rifing higher than all the reft of the Inand, as is faid beforc.

From this Ifland Gorgona to the Bay of Bonaventera is 20 I.s, the Courle N.E. and S.W. This Bay is very large, it lies in Lat. 3 d. 45 m . There are many confiderable Rivers that cmpty themfelves into it, particularly thofe of Los 'Piles, of St. \% Han, and others: and there are many Shoals lie off in the Sea within the Bay, fome ruming out 2 Ls ; fo that it is a very dangerous Coalt, elpecially to fuch as are unacquainted with ir.

The Bay of Bucho Ventura onght to be defcrib'd as fully as can be.
When you enter the Bay from the feaward, if the Weather be clear, you will fee within the Land a high Ridge of Mountains, with a kind of Pcak on the Middle; then to the fouthward of that Hill another thicker Hill, very high, calldd $d c$ las Dinnas, or of the Mines; and fill to the fouthward another round and fteep, like a Sugar-loaf. Thefe are your Marks for the Entrance into the Bay.
When you go forward towards the Bottom of the Bay, you will fee the Opening of a River; this is the Rio de Bueno Ventura: There is not Water for grear Ships; but Boats and Shalops ufually go in for Trade. When you enter the River, you will know it by this very fingular Mark, ziz. That there is a great Tree which grows in the Middle of the Sca; you Icave this Tree on your Starboard-fide, and fail directly up. Then you'll fee a Creck on your Larboard fide, go not in there, for you will find no way out; you come then to four Openings or Mouths, leave the firft which is on the right Hand, for there is no Paffage out neither, befides you will be a-ground in the Channel ; but make up the fecond, which is fate and decp, and tho it feems narrow before you go in it, is not fo afterwards. Going up this Channcl, you will fee a Creek on the Starboard-fide, call'd de Pero Lopez; run not in there, becaufe that leads out into the Sca: Alto leave another on the fame fide, calld de los Piles, and keep always to the Larboard-fide, till you come to Pucrio Vicjo, which is a Ls fhort of the Fort ; then run ftrait on, and come to an anchor juft againft the Forr. The principal Mark to know the Bay by as you come from the Sca, is, That you have all low drown'd Lands next the Sea, and high copling Hills within the Country.
crols the Bay of 'riblourds in a direct Lane, you may be faid now to open with the Bay of 'Pambma, which lies from this l'oint N. Wy E. but as the Coalt trends away firft N.E. to Bonauchtar liay and Cape Coricntes, we muft follow the Land as it lics.

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From the Miand Gallo to Gorgona is 24 Ls, the Courfe E. by N. The Coaft on your Starboard fide is all low Land, full of Rivers from the Land, and thofe Rivers occafioning feveral dangerous Shoals in the Sea, by the violent Frefhes in the rainy Scafons. Thete Rivers are, i. Rio de Cedras. 2. Rio de ios Barbacos, which comes into the Sca under a low flat Point. 3. Rio St. "Han, or St. \%oly. 4. Rio Tcllembic, and feveral others. On the E. fide of the latter River is a great Monntain called Barbacos. S.E. by E. from this River are alfo other high Mountains, but their Names unknown: Here youmay fee the Ifland of Gallofrom the Shore; it makes at that dift. as 2 Iflands, one bigger than the other, but they are rally one.
N.B. The Ifland of Gallo lies in $2 \mathrm{~d} .15 \mathrm{~m} . \mathrm{N}$.

From hence, the Coaft lying ftill E. by N. lics Punta del Morro do los Barbacos, or Point Barbacor, in Lat. 2 d .45 m , being 10 Ls from the Rio Tellembier. If you want Topmafts, or Kards, all which the Inand Gallo fupplies, you may come to an Anchor on the N.E. fide of the Ifland; and tho there is not full 5 Fa. Water, youmay go in with lafety, it is clean all the way with a landy Shore, and you may even lay a Ship on Shore it jou find occafton : allo you may wood and water at pleadure

The bland Del Gallo is not to high as the Head-land of Piablacos, it is not above a $L$ from the Main. If you come from the nothward towards this Coaft, you will find no high Land near the Sca all the way, except the Morrodebarbacos and the Mand of Cinllo: all the reft of the Coaft is low and flat, and much of it over-flow'd with the Frefhes in the rainy Scalons. If you happen to ply upona Wind to make this Coaft, come not within 3 Ls of the Shore and tho the Wind be large, yet if you arc clofer in, haul out, and for the Depth come not withan 15 Fa . Water; if you do, you will run great Riliues of being aground, when you leaft think of it.

The Mland of Gorgona is all high Land, about 2 Ls in compals, and lying in length N.E. and S.W. When fref youmake

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Out in the Bay you may anchor under a Head of Mangroves on the Starboard-fide, near an Inand call'd Realejo ; the Ifland is made by the River Offiones: You are fo to anchor, that a fmall Creck may lic juft before you, to that when moor'd, it will be right a-hcad of you.

From the River of Bueno Ventura the Coalt recurns, and the Land trends away N.W. again, fo that the Bight which lies fartheft into the Bay, is diftant from the Mourh of the Bay confiderably.
$N$. B. From the great Tree which ftands in the Water up to the Fort is 5 Ls : At the Fort you have 5 Fa . but in the Paffage at feveral Places but two: Yet Barks and Sloops from 40 to 50 Ton go up as high as to aVillage a $L$ beyond the Fort.
N. B. When you have the Rock St. Pedro and Inc Patmas and the Rio del Agua in a parallel E. and W, you have a good Road to anchor in, and 7 to 9 Fa. Water.
From the River of Bona Venturia the Laud trends N.W. The next Place of note is the Rio Neominas, or Naominas; it is a large River, and comes into the Sea at two Mouths, with a great Current, elpecially in the rainy Scatons: The Shore is low, but there is no landing on it, for there are none but Savages, whom you know not how to truft, of whethe: they are at Peace or War with you: And they go off in Canocs and Pcriaguas, robbing all the Boats they can; fo that you mult be well armed if you venture among them: And this is the reafon, why, tho the Place is fo near the Center of all the moft populous Spanifb Colonics, yet this Coalt is unfrequented and wild, and not lo much as the Shores furves'd of perfectly deccrib'd.
N. B. The diftance from Bona Ventuia to Nominos fome of our Pilots make but 10 Ls, but the sponimils make it it Ls.

Oppofite to the Rio Nerominas lies an lland called Patmar, 'tis low Lade andthere are ieveral Shoals about it, effectially' on the S.W. fide: The lland makes out in a tharp lome. Hercabout it was that the famous Buccancer Sir Memy MorStul/ was flranded, and lof his Ship.

Irom thas $R_{10}$ Neminas, or rather from the Ifland of $T$ 'almas to Cafe Combintes, is 20 Ls: The Coaft lics N. by W. and S. by E. but the Courfe to the Cape is full N.W. in a disect run. Capec Corvitutes is a high round Mountain, with two Hummocks near the Top almont together. When the C.pe is S.E. from you, one of the Hummocks looks like an llland or great Rock, feparated from the Mountain it felf; bur when you come nearer, they are the lame: They are fecn out at $\mathrm{Sc}, \mathrm{l}_{1} 1=$ or 15 Ls .

From Cape Corricutes to Port ©ncmada, or the Burnt Harbotw, the Shore lies N.N.W. and S.S.E. a bold Coalt, but no Harbour, wor is there any good anchoring upon it. The Water is very decp, and the Ground rocky and foul ; the dift. is 29 Ls, a wild and almoft defolate Coaft, no Rivers, Ports, or Towns in all the length, but low Illands drown'd by the Freflhes, and fome Rocks under Water allo: So that we have nothing to fay of this Coaft, refpecting the Sailors, but that they flould keep off of it as well as they can.
From Poit entemada the Coaf lies more northerly towards Gort Pimas, thic Courfe N. by W. ditt. 12 Ls. Yoort Pinas is a high double Land, broken and uncven in Clefts and Ridges, as indeed is almof all the Coalt, which you will fee when you are to the S.W. of it our at Sca.

A little within the Harbour of Pinas you will fee 2 Rocks near one another ; you may go into the Port ou cither frde of them, but the beft Channel in, is in the Middle between them. On the S. fide of the Harbour are four or five fimall Iflands; give them a good Birth alfo as you go in, and at the Entrance you will fee a great Bay; there you may come to an anchor in clean Ground: From thence fowards the S.E. you will liee a plain Strand, where the Town of $P$ Pinas lics on your Starboardfite, and a River call'd Rio Salada on your Larboard: Up the River yon may have both Wood and Watcr; you may fetch it with your own Boats. In the Cove near the River youmay

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## Sailing Directions for the Weft Coaft of New Mexi Acapulco; and from thence to Maxantalla in the Coaft of America.



HE City of $\mathscr{P}_{\text {antama }}$ is fituated on a finall navigable Creck at the Bottom of a large deep Bay, or Gulph of the fame Name, opening duc N. and S. to the great Southern Occaln, call'd anticntly the Pacific, but by our Navigators the Soutl)-Seas, from irs pofition with refpect to the Bay of Mexico and the Gulph of the Honduras, which lic duc N. from it : Tho it is other. wile more properly the Weftern Ocean, as it lics parallel with
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## the Weft Coaft of New Mexico.

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Ce 2 Rocks ther fide of wen them. all Inlands; Entrance a anchor in will fee a Starboardrd: Up the may fetch cr you may

Carecn, bur you mult go well arm'd, cfipcially if you go far up within the River, and be cautious of the Nateses, who are crucl, treacherous and thievilh.

The Harbour is call'd Port Winas, from agreat Numher of large Pine-Trecs, which grow upon the Coaft, as well hete as all the way fouthward to Cape Corrientes.

From Port Pinas the Land ftretches out more wefterly at gain to C.ape' Garachina, dift. 7 Ls. The Coaft betwen makes Iome Openings, and a little Variation to the northward, but in general lies N.N.W. and S.S.E. Inthe Midway between there is a fimall Cove or Bay, calldd Caracolus, with a Imall Ifland before it, but of no Importance: This Cape Garabina and the oppofite Cape Mala lic in a ftrait Run due E. and W and make together the Mouth of the Gulph of l'anama; all the Illands of the faid Gulph lying within them, and which are deferibed in their place.
N.B. Cape Cadranclina is in Lat. 7 d. 20 m .

From this Point of Garachina goes in the great Gulph of St. Miguch, or Michach: The oppofite l'oint is that of Cape Lorechzo. Cape Lorenzo and Cape Giarachina lic with one another N. by E. and S. by W. dift. almoft 20 Ls. Between them goes in the faid Bay or Gulph of St. Nicloach: It goes in due E. but when in, bears a litte northerly about half a Point. Into this Gulph comes the River of St. Alary's, which beiny oppofite to the great Gulph of Tarien on the N. Coast of America, makes the Paffage by Land between the two Gulphs which is call'd the Itthmus of America, excecding narrow. The Entrance into the Gulph of St. Michole is in Lat. 7 d . 30 m .

From this Bay of St. Micljact the Land rounds away firft N. by E. then N. then goes on gradually rounding to the N.W. and at Iength lics duc E. and W. to Panama it felt, without any confiderable Place on the Coalt between; for the Navigation of the great Bay of T'anama feems to be chiedly concern'd with the Illands of the Bay; and the Channels by which Ships pats in or out, lying thro' betwecn thofe Illands, the Coaft of the Main, clpecially on the E. fide, is much unfrequented, as it is out of the way, and alfo as it is a foul dangerous part of the Mais, without Harbour and without Shelter.

## of New Mexico, from the Bay of Panama exclufive, to xantalla in the Gulph of California, ending the Weft

nall navigacep Bay, or c N . and S . nticntly the South.Seas, ico and the oit is other. arallcl with

Taboga is a high Land very woody, not above a L in Circuic, lying N. by E. and S.by W. with Pore Perico: There is a good Road on the S.SE. fide of it; and tho the Illand is !o fimall, there is a Creck of good frefh Water, and convenient to come at with Boats; the Ground is good to anchor in, and in the Road is 12 to 18 Fa. Watcr.

Near it is little Taboga, a finaller Inand, which the Spaniards call Taboguilla; the Chamel berween is very narrow

## Sailing Direitions for the Weft Coaft of New Me Acapulco ; and from thence to Maxantalla in $t$ Conft of America.



HE City of $P_{\text {atmama }}$ is fituated on a finall navigable Creck at the Bottom of a large deep Bay, or Gulph of the fame Name, opening duc N. and S. to the great Southery Ociain, calld anticntly the Pacific, bur by our Navigators the Soutl).Scas, from its pofition with refpect to the Bay of Mexico and the Gulph of the Honduras, which lic due N. from it: Tho it is otherwile more properly the $/ W_{\text {effern }}$ Occan, as it lies parallel with the Wcft Coaft of America, and oppofite to the great Athantick ()cean, which is duc E. from it.

This Gulph of 'Panama has a vaft refort of Shipping to every partof it, the Port of Paiama being the beft in all the South.Scas for Trade, as it receives moft of the Goods which come from and to thofe Seas, anddeals with theru over land to and from Eurofe.
S.W. From the City, in the Offing as it were of the Port, lics Porto Perico, in an llland, and at the dift. of a Ls from the Shore: The Harbour is form'd by threc Iflands lying N. by W. and S. by E. from one another. and where moft of the Ships bound in or out of Panama come to an anchor, and ride for a Wind.

Berwecn this Port and P'amama, almoft Midway, lics a very dangerous Shoal of Rocks, where many good Ships have becn loft notwithftanding it is fo well known, and many more that have ftruck have been gotten off again, but not without great Difficuity and Damage. This Shoal and Port Perico lic with one another N.E. and S.W. Bring the Hill of Patilla to bear from you duc N . and the Shoal is directly before you, and you will run right upon it : But bring that Hill N.N.W. and that Port of 'Panama due N . and you go clear of the Shoal, Icaving it to the $W$.

In the Mouth of the Bay of Panama lic feveral larger Iflands, befides fome finaller; they are call'd all together the Pearl $I / / a n d s$, but have particular Names alfo, as the I/a Chuche and ifla del Rey. The Ifla Cbucloc hics with Panama duc N. and $\mathbf{S}$. It is the largeft of the Pearl Iflands, and the moft wefter$\mathrm{I}:$ : It is diftant from $P$ anama ${ }_{15} \mathrm{Ls}$, from the ifland of $P$ acheco 9 Ls N N.E. and S.S.W. 5 L.s from Otoque N.W. and S.E. and in Ls from Taboga N.N.W. and S.S.E.
N. B. Otoguc and Tionga lic in the Fair Way from Pamama to the Pituta de Chame, or Point Nata, which is the W. Point of the Mourh of the Bay, and which all thole Ships make that are bound to the NW. Coaft of America, and to ficatales. They are diftum from one another ${ }_{4}$ Ls Nivandss.W
bard: Up the the Main, efpecially on the E. fide, is much unfrequented, as it ou may fetch is out of the way, and allo as it is a foul dangerous part of the iver you may Main, without Hasbour and without Shelter.

## ft of New Mexico, from the Bay of Panama exclufive, to Iaxantalla in the Gulph of California, ending the $W_{e}$ ft

finall navigadeep Bay, or duc N . and S . anticntly the c Soutl).Seas, exico and the Cho it is other. sparallce with c grcat At lant-
pping to cucry the South-Seas come from and 1 from Europe. f the Port, lics Ls from the lying N. by W. he Ships bound c for a Wind. ay, lics a very hips have been any more that withour great perico lic with Patilla to bear you, and you Pand that Port oal, Icaving it

1 larger Inands, her the Pearl flac Chacbe and ya duc N . and ic moft wefter-- Illand of $P a$. N.W. and S.E.
ay from 'Panawhich is the which all thofe It of smerica, e another ${ }_{4} \mathrm{Ls}$

Taboga is a high Land very woody, not above a L in Circui:, lying N. by E. and S.by W. with Pore Perico: There is a good Road on the S.S E. fide of it; and tho the Illand is to tinail, there is a Creck of good frefh Water, and conveniente to come at with Boats; the Ground is good to anchor in, and in the Road is 12 to 18 Fa. Water.

Near it is little Taboga, a fmaller Ifland, which the Spaniards call Taboguilla; the Channel between is very narrow but good, and the Ships pais that way to the P'unta de C'Jauma. In paffing thro' here, obferve to kecp neareft the great Inland, to avoid a roci y Shoal on the fide of the Taboguilla; you will know it tho it be under Water, by the Sca breaking upon it: nor muft you go too near the Head land of Tabgga, in palfing this na:row Chamel.

When you are the Iength of Otoqne, if you are bound about to the northward, coaft along in fight of the W. Shore, bur at a good diftance, ftecring S.S.W. towards Morro de Porcos, or the Hogs Sirand: Then you will have a fight, if it be clear Weather, of the Punta de Clauma, and open the Bay of Nata, juft under the Head-land of the Cape. If to the fouthward, take a Pilot to the Inand of Gorgona.

The Bay of Nata is a pacious decp Bay ; but you mult not venture in, unlefs forced by necelfity, becaule rhe Winds blowing long at E. upon this Shore, you may be cmbay'd, and be long getting out. The Bay reaches to the Ifland Iguanas, under the Lec of which Ithand is good anchoring, well helter'd from S.W. Winds; and to the windward of it alfo there is a good Road, in a Creek berween the Ifland and the Main. From Otoque to this Ifland Iguanas is 2 Ls .

From the Ifland $I_{g}$ uanas to $P$ Punta Mala is 2 Ls S.W. To the Leeward of the Point is a Cove, where there is a good Road, fecured allo from S.W. Winds. If you would go into this Road, you muft kecp clofe along under the Head-land, and then ride where you pleafe: At this Point the Land call'd Nata trending N. and S. cuds; and then rounding the Point, the Coaft gocs away N.W. to Point Higuera, or as in fome Charts Haguera: The dift. from the Road under Cape Cbamua is 7 Ls.

This Point of Haguera is a Ridge of high Rocks, which run tapering out into the Sca till they come to a Point; and under the Lec of that Point is good anchonug, and well feirred from S.W. Winds: It is all a clear Strand, good holdug:ground, and a clcan Bottom, and which is tomething raic in

## Sailing Directions for the $\mathbf{V}$

all that Coaft till you come thus far : here you have excellent wooding and watering.

Two Ls fhort of Point Higucra lie two fmall Illands, call'd the Frayles, or by fome the Padres or Fryars, about half a $L$ dift. from one another, and the neareft of then 1 L dift. from the Shore. On the out or off-fide of the outmolt of thofe Mlands lies a Shoal of Rocks under Water, which the Sea ufually breaks much upon with a S.W. Wind.

Likewife between the faid Point Higuera and Morro de Porcas lies aShoal of Sand under Water, which the Sea breaks upon alfo with a great Noife upon a S.W. Wind; it reaches out a L from the Shore, and tails quite round the Point; but as foon as you are clear of that Sand, you have 15 Fa. Water. The Morro de Porcas alfo makes a Bay to Leeward, in which there is good anchoring in cafe of a S.W. Wind.
N. B. A S.W. Wind makes a Lec-Shore upon all this Coaft.

It is from this Head-land call'd Morro de Porcas, that Ships fland off to Sea, or take their Departure (as we call it) for their Courfe S. to the Coaft of Peru, fteering firf S.S.E. to the Ifland of Malpelo, and from Malpelo S. to the faid Coaft of 'Pcru. Malpelo is a finall Illand, it is high Land, and makes at Sca in many little Breaks, when it bears E. but when it bears S.W. it makes with one Break in the Middle; and when making N. or from the N.E. it appears round with no Break at all.
N. B. In this Run crofs the Bay of Panama to the Coaft of Peru, take the following Obtervations:
If you are in the Seafon of the S.W. Winds, and obliged to turn it thwart the Bay, make the moft of your weftward Trip, flortening upon all your Trips to the S.E. becaufe as you are bound to a Coaft which lies N.E. and S.W. the more you gain upon the S.W. Tack, the more you will fetch to the windward of Malpelo.
Alfo oblerve, that if the Currents which are very ftrong there, fhould hurry you the length of the Illand Gorgona, you may know the Illand by the two Breaks it makes with a Peek in the Middle, being all high Land, and the windward Head larger than that to Leeward, having no other Land near it.
From Morrode Porcas to Point Mariato the Coaft lies E. and W. dift. 12 L6. All the way between you fee the Mountains of Guanico, ranging along to the weftward, till they go off in the Point ; and they are known all the way by the high Heads and Hummocks which appear upon them in a Line as they lic : And on the higheft part of them is a large round Hill, with a Break on the $W$. fide.

The Point Mariato alfo is high and mountainous, and has a little Rock to the weftward clofe by it: The Coaft is fteep and rocky. To coaft from this Point of Mariato to Nicaragua, you take the following Courfe : From Point Mariato to the Ithand Jebuco is 3 Ls , and the 1 fland it felf 5 Ls more N and S . At the N. Point of the Illand is a Shoal; on the W. fide is the Illand Governad,r ; and on the W. fide of the Governador, and clofe to it, lies a Channel thro', leading into the Bay of the $\mu$ Milippinas.

Going into this Bay keep your Lead in your Hand, and go founding all the way, for there are many Banks of Sand all the way in. Cone not into Iefs than 6 Fa. left you arc left a.

## tions for the Weft Coaft of New Mexico.

have excellent
1 Illands, call'd $r s$, about half a em I $L$ dift. from utmoft of thofe bich the Sea ufu-
and Morro de h the Sea breaks 1; it reaches out Point ; but as $=15$ Fa. Water. eward, in which .
on all this Coaft. rcas, that Ships ; we call it) for g firt S.S.E. to the faid Coaft of d, and makes at ut when it bears ; and when ma. h no Break at all. ama to the Coaft us :
and obliged to f your weftward the S.E. becaufe es N.E. and S.W.
the more you
are very ftrong Illand Gorgona, Breaks it makes $h$ Land, and the rd, having no o-

## the Coaft lies E.

 bu fee the Mounard, till they go way by the high cm in a Line as is a large roundinous, and has a he Coaft is fteep o to Nicaragua, Mariato to the s more N . and S . he W. fide is the the Goveruador, to the Bay of the
ar Hand, and go nks of Sand all eft you arc left a-

River, having 10 to ${ }_{12} \mathrm{Fa}$. Water the Ifland and the River bearing with one another N.E. and S.W. There is a low Point juft within, call'd, as above, Rbencbiera, where they ufually build Ships; and about Musket-flot farther up is the Anchoringplace; From thence to the Spaniards Town calld Rhenchiera it is 3 Ls up the Stream, but you may fee the Town from the Road:
N. B. There is no Channel between the Ifland of $\mathcal{P}$ uebla Nueva and the Main, the Place being full of Shoals, and the Sea breaking continually upon them.

You fhould obferve, that as all this Courfe is round the Bight of the Bay, fo the Courfe crofs the Bay is alfo well known by Ships which have no bufinefs into the Bay. This Courfe lies from Morro de 'Porcas to Point Burica N.W. and N.W. by W. the dift. 38 Ls.

From this Point Burica to Cape Blanco the Courfe is likewife N.W. This is the Courfe leaving the Bay, and failing from Point to Point in a ftrait Run.
Bur to Coaft the Bay, in which are abundance of 1llands oblerve that from Puebla Nueva S.W. lic the Ifes de Contreras, dift. 4 Ls , and to the W. of them othet Illands call'd de Secas, or the Dry Iflands; from thence to Chiriqui is 4 Ls , the whole dift. in Ls: At this Point of Cbiriqui ends this long Coaft and Bay, which lies with the Iflands Cianales E. and W. but with the Maio N.W. and S.E.

The Mouth of the River here is full of Iflands clofe to the Land: if you would go up to the Town, you mult have a Spanilh Pilot, or found the way for your celf as you go. Ar the Iflands off of the River Chiriqui begin another Bay, which runs away W.N.W. to the Point Burica, and then the Coaft trends northward again. This Bay from the Iflands to the Point is 6 Ls over.
On the N. fide of the Point, and within the Bay, is a fmatl Road, where is good anchoring in 6 to 8 Fa. and a fma.! River or Creck, where you may have plenty of frech Water. As you go from this Anchoring-place to fcaward N.W. you will lee fome Ridges of Rocks near Poinc Burica. A little to the northward of the firt Ridge is Port Linzones; it goes in at a fmall River but deep, and Ships may go into it wirh fafery, the Entrance lies juft under the Point to the N.W.

When you weigh to come our of this little Port, give Point Burica a Birth; for there are feveral Flats off from the Point running out a $L$ into the Sea, which by this means you may hhun. From Point Burica to Gulpho Dulce, or Golfò Dulce, that is Fre/b-water Baj, is 4 Ls ; the Coaft lies N.W. and S.E. and from Gulpho Dulce to the Ifland del Cano is 7 Ls, lying in the fame Courfe.

This Gulfo $\mathcal{D}$ alle is an excellent Road, for you have good anchoring any where and well lecured: Here is plenty of Wood and Water almoft in any part of the Bay, and no Danger but what is in fighr. But if a European Ship comes in to wood or water, they muft be on good Terms with the Spaniards, or be very carefil how they truft them.

From this Ifland del Cano to another Indian Ifland in the Bay not inhabited by Spaniards, is about 4 Ls; and from that Indian Illand to the River de la Efteclla, or the Star River. windward Head larger than that to Leeward, having no o. ther Land near it.
From Alorro de Porcas to Point Mariato the Coaft lies E and W. dift. 12 Ls. All the way between you fee the Mountains of Guanico, ranging along to the weftward, till they go olf in the Point; and they are known all the way by the high Heads and Hummocks which appear upon them in a Line a: they lie : And on the higheft part of them is a large rounc Hill, with a Break on the W. fide.

The l'oint Mariato allo is high and mountainous, and has little Rock to the weltward clofe by it: The Coaft is ftee and rocky. To coalt from this Point of Mariato to Nicaragua you take the following Courfe : From Point Mariato to th mand sebato is 3 Ls , and the Ifland it felf 5 Ls more N . and S At the N. Point of the Ifland is a Shoal ; on the W. fide is th Mland Gocernador ; and on the W. fide of the Governador and clofe to it, lics a Channel thro', Icading into the Bay of th 1 bilippuas.

Going into this Bay keep your Lead in your Hand, and ge founding all the way, for there are many Banks of Sand al the way in. Come not into lefs than 6 Fa. left you are left a ground upon the Ebb. If you would go to the Town o "hilippinas, which lies up a River that opens in the Botton of the Bay, you mult anchor to Leeward of the Ilba di Leones or the I/le of $L i, m s$, that is, on the N . fide of it ; the Chan neel is clofe under the Main: Anchor at the End of the Inlane a little to the weftward, but come not near the Illand it felf becaute 'tis flool all about it.

The River of Pbilippinas goes up 2 Ls , navigable by larg Vencls. Firlt let your Courle be $N$, to the Mouth of the Ri ver; you will know the Opening of it by a high Wood o Mangroves. The Town lics 3 Ls up the River. The Bay ha many nore Iflands in it, and confequently feveral Channels a mong them : The beft Cliannel out, is that to the S.E. end o the Goveruador, for there are no Dangers but what are is fight. On the out fide of the Illand you may ride well fecur'd and lave good anchoring.ground in 15 to 20 Fa.
E. from the Ifland Sebaco the Land trends E. and W. as $\mathrm{f}_{\text {a }}$ as the Ifland Cathat's, and lies low to within 4 Ls of Canale. Irom Sebaco to enicara the Courfe is S.W. dift. 15 Ls. T the fouthwatd of the Inand Canales is the lland Corbd 18 Ls in length, and near it another fmaller, call'd Inan de Rluenclaira.
N. from the Ifland of Cinales is a Bay call'd Baia Hond or the 'lecep Bay, a very good Harbour, Land-lock'd from a Winds, and having 15 to 20 Fa . in the Watering-place. Th diflance from the laid Illand is 2 Ls N . from whence the Coa runs on to C'biriqui. Midway between them is the Town Pucbla Nueva, or New Towin. From Baia Honda to th 'Pucbla Nue ${ }^{\prime}{ }^{\prime}$ the dift. is 7 Ls , the Courle N. by W. Righ before the Mouth of the River, which gocs up to the Tows lics an Illind call'd by the fame Name, about 1 L from the Mai The Channel ruas on the E. fide of this Illand directly up th

I hight Land, and the eeward, having no oato the Coaft lies E. on you fee the Mounceftward, till they go the way by the high in them in a Line as hem is a large round
puntainous, and has a : 'The Coaft is fteep ariato to Nicaragua, oint Mariato to the 5 Ls more N . and S . on the W. fide is the of the Governador, ig into the Bay of the
y your Hand, and go y Banks of Sand all Fa. left you are left ago to the Town of opens in the Bottom of the Ilba di Leones, ide of it ; the Chanthe End of the Inland near the Illand it felf,
$-S$, navigable by large the Mouth of the Riit by a high Wood of River. The Bay has ly feveral Channels alat to the S.E. end of jers but what are in may ride well fecur'd, 20 Fa
nds E. and W. as far ithin 4 Ls of Canales. S.W. dift. 15 Ls. To is the Ifland Corbo, fmaller, call'd Inland

By call'd Baia Honda, Land-lock'd from all Vatiring-place. The from whence the Coaft them is the Town of Baia Honda to this urlic N. by W. Right gocs up to the Town, ut 1 l . from the Main. Mhand directly up the
or creck, where you may have pienty or trent water. As you go from this Anchoring-place to lcaward N.W. you will lee fome Ridges of Rocks near Point Burica. A little to the northward of the firf Ridge is Port Limones; it goes in at a fmall River but deep, and Ships may go into it wich fafery, the Entrance lies juft under the Point to the N.W.

When you weigh to come out of this little Port, give Point Burica a Birth; for there are feveral Flats off from the Point running out a $L$ into the Sea, which by this means you may fhun. From Point Burica to Gulpho Dulce, or Golfo Dulce, that is Frefb-water Bay, is 4 Ls ; the Coaft lies N.W. and S.E. and from Gulpho Dulce to the Ifland del Cano is 7 Ls, lying in the fame Courfe.

This Gulfo Dulce is an excellent Road, for you have good anchoring any where and well fecured: Here is plenty of Wood and Water almoft in any part of the Bay, and no Danger but what is in fight. But if a European Ship comes in to wood or water, they muft be on good Terms with the Spaniards, or be very careful how they truft them.

From this I land del Cano to another Indian Ifland in the Bay not inhabited by Spaniards, is about 4 Ls ; and from that Indian Illand to the River de la Eftrella, or the Star River, is 5 Ls , the Courfe the fame ftill, viz. N.W.

From the Ifland del Cano thwart the Bay, and not in the Bight, to the Cape Herradura or the Horfe-flooe SPoint, is 16 Ls; and from the River de Eftrella in the Bight or Bay to the Herradura is in Ls. This Coaft was antiently call'd C'oafta Rica, or the rich Coaft, inhabited by the Buriaco Indians and the Creolian Spaniards.

In this Bay the Sca runs fo very high, that it is fometimes dangerous Riding in it, the the Wind does not blow hard; the Mouth of the Bay lying directly open to the valt Soutbern Ocean S.W. by W. and S.S.W. The River de Eftrella is about a Mile and half wide at the Entrance, and fmall Ships may go in for about 2 Ls .

From the Herradura lies the Inland of Chira, the Courfe N.N.W. and S.S.E. the dift. Is Ls. In the Midway lies a Town on the Coaft call'd Landecho, inhabited by Spaniards. This is a good Country to get Provifions, nor are the Indian's backward to fupply you for Money, if the Spaniards will permit them, and even without the Spaniards Confent too, if they can do it privately.

Two Ls beyond Chira lies the River Cipanfo, where Ships ride to take in Goods from Nicoya, a Town up within the Land; the River is navigable by large Periaguas, which bring down the Goods to the Ships. The Illand of Chirce af. fords frefh Water and Provifions in great plenty.

Clofe by the Ifle of Cbira is another fmaller Illand inhabited alfo by Indians, which is full of Cattle, as Chira is, efpecially Sheep and Hogs. On the N.E. fide of the Ifland lies a Bank, which is fometimes dry, but at other times the Sea wathes over it. To go into the Road of Chira, keep clofe to this Ifland, leaving all the other Iflands W. of you, the Main being on your Scarboard-Bow, except the fmall Illand where the Bank lies:

The Channel lies between it and the other inands up to the Town；there you may anchor in 10 Fa ．and be lupply＇d with Water and other Neceffaries．

N．N．E．from Chira lies the Iland of St．Luke，dift． 8 Ls．N In the way are three Iflands，call＇d Ilbas de en Medio，or the Middle lfands，probably becaute they lie midway from Chira to St．Luke，From Chira to thele Middle IJlands＇tis all hooal， not above 6 to 7 Fa ．Water any where．Ships failing this way， whether to the northward or fouthward，fhould always bor－ row of the Inlands，keeping nearer to them than to the Main．

Not far from thefic Middle I／lands，and neareft to the out－ moft of them，lies the Illand Guayavas，where there is alfo plenty of Provifions and Fruit，and you may be fupplied at all thefe Illands，of which there are very many in this Courfe ； and the nearer Cape Blanco，the more fimall Illands you will find，and moft of them clofe by the Main．

From the Herradura，mentioned before，to Cape Blanco， or the W Jitite Cape，is 20 Ls；the Courfe lies due N．W．and S．E． the Shore of the Main ftretching away wefterly to Cape Blanco．
$N$ ．B．Cape Bianco and the Illand Canoc bear with one an－ other N．W．by W．and S．E．by E．and Cape Blanco and St．Luke N．E．by N．and S．W．by S．dift．from them both about 9 Ls．
N．B．On the Shore oppofite to St．Luke they ufually lade Mules with Provifions，and alfo with Merchandize，to go over－land to Panama．
Cape Blanco is high Land on that fide next the Sca，but nopes away on the Land－fide，and makes a Table up towards the Mountain：From off Sea，at a diftance，it makes like an 1 Inand．It lies in io d．N．Lat．you may know it by a little Illand without any Nam：lying clofe by it，on the Top of which is a large black Spot，being fome Trees always verdant， but fo thick，that they look black at a diftance．

N．W．from Cape Blanco lies Point Guiones，dift．io Ls；and in the Midway between are two Shoals，which run out a full L dircctly into the Sea，being equally diftant from the Cape one way，and from the Point the other way．Point Guiones， which way fo ever you come towards it from the Sea，makes like a Helmet or a Steel Cap ：Clofe to it is a fmall Inaud well worth notice，becaufe there are Shoals and foul Ground all a－ bout it，every way；therefore you mult take care to give it a good Birth ：Alfo in the Bay between the faid Point and Cape Blanco are forve white Rocks under Water，and fome above； ＇tis beft there ce to keep out withour them．

N．N．W．from Point Guiones lies Morro Hermofa，that is， the Beautiful Head－land or Point：It is a clean fair Coaft all the way，and the dift． 8 Ls．The Head－land is high aud al－ moft perpendicular，as a Wall；you will fee the Sea beat upon it fone ls before you come to it，for it is fleep too．

Seven Ls difl．from Morro Hermofa lics Port Velas，or ©Porto V＇clafio；the Coaft lies N．W．by N．and S．E．by S．The Port lies up within the Land，and has frefh Water ；but the Land between the Town and the Sea is low，and not to be feen at Sea，till you are almoft upon it：You will know it by the following Marks，viz．（ t ．）Three Ls before you come

## for the Weft Coalt of New Mexico.

nds up to the lupply'd with
ke, dift. 8 Ls. Medio, or the ay from Chira is 'tis all fhoal, iling this way, dalways borto the Main. If to the oute there is alfo fupplied at all n this Courfe ; lands you will

Cape Blanco, N.W. and S.E. to Cape Blanco. ar with one anpe Blauco and om them both
hey ufually lade chandizc, to go
ext the Sca, but able up rowards it makes like an w it by a little on the Top of always verdant,
dift. io Ls; and h run out a full from the Cape Point Guiones, the Sea, makes fmall Ifland well Ground all a. :are to give it a Point and Cape id fome above;
crmofa, that is, can fair Coaft all is high and alie Sca beat upon too.
Port Velas, or $\ddagger$ S.E. by S. The Water ; but the , and not to be will know it by efore you come :ocks in che Sea

Mark to know it by is a Table of about 2 Ls long, on a Mill near the Port ; this they call St. Yobu's Table. From Point St. Casherine to this Port of St. "foln is 15 Ls, the Courle N.W.

You muft be careful of this Bay del Papagayo, if you hap. pen to be here any time between Nozember and April: For as the $\mathbf{N}$. Winds reign, as the Seamen call it, in thole Months on all this Coaft, they make a Sea fo high, that a Ship can hardly live in it ; be fure therefore to keep clofe under the Lee of the Mountains, and under Shore; for the high Lands breaking off the Wind, efpecially on the moft northerly Coaft of the Bay, you have it tolerably fmooth under Shore, only a great Swell.

In the Middle of this Bay comes in a frefh River, but the Sca goes always fo high you caunot come near to get any Water. In the Entrance of Port St. Foln you are Ihelter'd from thote northerly and N.W. Winds; but then a S.E. blows right in, and makes a terrible high Sea upon the Beach, and there is no going on Shore neither, the Land is fo high and fteep; fo that at beft 'ris but an indifferent Port.
N.W. from this 'Port St. \%obn, dift. 15 Ls, lies the City of Realejo, upon the Coaft of Granada. From this 'Port of St. Fobn, begins the great Range of burning Meuntains, which are feen a long way to Sea, and are Marks for the Coaft all the way to Teguantepeque, which is near 200 Ls from the S.E. to the N.W. Not that they are all on Fire, nor are thote which are really on Fire often feen to break out, but fometimes they do make Eruptions, and the Spaniards fay they are all on Fire within; however, they are call'd fo, and are known to the Sailors by the Name of the Burning Mountains. They are feen 12 to 15 Ls off at Sea, and when any of them break out, they are feen much farther, befides that they ftand fome Ls within the Land.

The firlt of thefe Mountains to the northward of St. Folm's Port is the Voleano de Leon, which is feen near 20 Ls at Sea, and ordinarily throws out Clouds of Smoke when it does not flame, fo that it is known by it at a diftance. Near this Port St. 'Jolsn, and in the height of the Hill di' Leon, a frelh River, call'd la Tofta, comes into the Sea, and the Water is to be come at with eale, being not block'd up with Mangroves, nor is the Swell of the Sea great here, as before.

From this River to Realejo is 8 Ls , the Courfe N.W. or N.W. by W. Here begins a high Ridge of L.and, running along with the Sca for 3 Ls in length, plain on the Top, and fmooth like a Carpet, but a little rounding in rhe Middle; it is call'd the Level of Tofta, or the Ridge of Toffa. Over this Ridge you fee the Volcano of Telica, bearing with the Ridge N.N.E. and S.S.W. From the northermoft End of this Ledge it is 4 Ls to Realejo N.W. and S.E. the Shore flat and low, but the Water deep and the Ground clean from Rocks or Shoals : Alfo there are in fome Places good gradual Soundings at 15 to 20 Fa. 2 Ls out at Sea, and good clean Sand: And thus it is quite up as far as Teguantepeque.

From the burning Mountain Telica, to the Volcano del Veja, or the Old Man's burning Mountain, the dift. is 6 Ls; and there are two other Volcanoes between them, but not to great,

Which way ever you cone towards it from the Sea, makes like a Helmet or a Stecl Cap: Clofe to it is a fmall Illand well worth notice, becaule there are Shoals and foul Ground all about ir, every way ; therefore you muft take care to give it a good Birth: Alfo in the Bay between the faid Point and Cape Blinco are fome white Rocks under Water, and fome above; 'tis belt therefore to keep out without them.
N.N.W. from Point Guioncs lies Morro Hermofa, that is, the Beautiful Head-land or Point : It is a clean fair Coaft all the way, and the dift. S Ls. The Head-land is high and almoft perpendicular, as a Wall; you will fee the Sca beat upon it fonie ls before you come to it, for it is fteep too.

Seven les dift. from Morro Hermofa lics Port Velas, of Portol'clafio ; the Coaft lies N.W. by N. and S.E. by S. The Yort lies up within the Land, and has frelh Water ; but the Land between the Town and the Sea is low, and not to be feen at Sea, till you are almoft upon it: You will know it by the following Marks, viz. (1.) Threc Ls before you come up to the Harbour, you'll fee three or four Rocks in the Sea above Water, and a little Ifland clofe by them. (2.) Farther on between the llland and the Port you will fee threc or four other Rocks, which at a diftance make like Ships under fail ; and from thefe Rocks the Port is faid to be named de Velas, or the C'ity of' Sails. (3.) Another Mark, and the moft to be taken notice of, is, that near the Mouth of the Port there is a great Ledge of Rocks ly ing along the Coaft a $L$ in Iength, and running alfo another way a $L$ out into the Sca; which you mult be very careful of.

From Port Velas the Coaft, which is very full of Points and Bays, and thercfore of differcut Bearings almoft for every $L$, bears W.N.W. and E.S.E. to Point St. Catherines, dift. 8 Ls. This Point of St. Catherincs bears with Point Guiones N.W. and S.E. and is in a direct Courfe 22 Ls dift. from it; but if you go into the Bays and Bights by Port Velas and other Places on the Coalt, 'tis near 30 Ls.

Off of this Point St. Catberine. 2 Ls at leaft into the Sca, ftands a high Rock, and between thefe Rocks and the Main without the Point are two little Illands; and again, within the Point on the fide of the Bay are two other little Inlands, bearing S.E. from the firft two, and dift. from them about a L. By all thele Inands and Rocks the Point is known, and the Courfe directed.

At this Point begins 'Papagayo Ray, or the Bay of Parrots, ftrctching out N.W. almoft 16 Ls ; in the Middle of which over the Land, tho making at a diftance as if it ftood in the Sca, you will fee a Volcano or burning Mountain, which is near the City of Granada on the fide of the Lake of Nicaragua, and may be alfo feen, as fome report, into the North. Sea, or at leaft far into the Lake towards the Sca. It is cleft down almoft from the Top to the Botrom like a broken Saw; 'tis call'd Bombachio, and by our Sailors, the 'le'vil's Mouth.
N.W. from this frightful Hill, dift. 5 Ls from that part of the Land over which it appears, lies Port St. Jolvi. The

C Sca, makes ill Ifland well round all ato give it a int and Cape fome above;
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it Velas, or E. by S. The ater; but the nd not to be 11 know it by re you come ks in the Sca (2.) Farther threc or four s under fail ; de Velas, or : moft to be Port there is a a length, and ; which you
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St. \%olnn, and in the height of the Hill de Leon, a frefh River, call'd la Tofla, comes into the Sca, and the Water is to be come at with eate, being not block'd up with Mangroves, nor is the Swell of the Sea great herc, as before.

From this River to Realejo is 8 L.s, the Courfe N.W. or N.W. by W. Herc begins a high Ridge of Land, runuing along with the Sca for ${ }_{3}$ Ls in lenget, plain on the Top, and finooth like a Carpet, but a little rounding in the Middle ; it is call'd the Level of Tofta, or the Ridge of Tofta. Over chis Ridge you fee the Volcano of Telica, bearing with the Ridge N.N.E. and S.S.W. From the northernoft End of this Ledge it is 4 Ls to Realijo N.W. and S.E. the Shore flat and low, but the Water deep and the Ground clean from Rocks or Shoals : Alfo there are in forme Places good gradual Soundings at is to 20 Fa. 2 Ls out at Sca, and good clean Sand: And thus it is quite up as.far as Teguantepeque.
From the burning Mountain Tclica, to the Volcano del Veja, or the Old Man's burving Mountain, the dift. is 6 Ls ; and there are two other Volcanoes between them, but not to great, nor do they often fmoke. Between them is a long Range of hilly Ground, which may be faid to join the Volcanoes one to another.
$N . B$. When we fay the diftance is fuch and fuch from any Port on the Coaft to any of thefe burning Volcanocs, it is to be underftood of the Diftance to the Shore oppofite to thofe Volcanocs, which are generally 6 to 9 Ls up within the Country.
The Vokano Veja. or the Old Man's Monntain, lies 7 Ls up the Country, and bears with the Bar of Realejo N.E. and S.W. This Port of Realejo is the moft in ule for Shipping of any in all thefe Scas, elpecially between Acapullo and 'Yanama, Ships coming to it from all parts of the South-Seas. If you are bound in, and ftand for the Bar from out of the Sea, you muft come up clofe with the Land to ditcover the Harbour ; for the Coaft being all a low flat Country, and much overgrown with Trees, unlefs you come to near as to fee the landy Strand which lies all along under the Shore for 6 to 7 Ls ; there is no difcovering the Port.

You muft thercfore be firt fure you are in the Latitude of the Bar, and when you are a-breaft of the Port, fland right in, for which take this fiure Mark: Bring the l'olcano del Veja to bear N.E. from you, and then ftand boldly with it for the Harbour ; in that Courfic you will foon fee a low Inland abour half a $L$ in Compafs. which is flat on the Top, and cannot be fecn till you are within a L of it. That Illand lies in the very Mouth of the Harbour.

That Iland indeed fhelters the Port, and makes it a Harbour, for it breaks off the Sca, which would otherwife come rolling into the Harbour Mountains high. Lying thus in the very Entrance into the Harbour, it makes two Mouths or Channels into it, one to the S.E. and the other to the N.W. the firft is by far the largeft, but the other the faireft and bett Chauncl,

## Sailing Direflions for the Weft Coalt

Channel, cleareft of Rocks, and the deepeft Water; fo that no Sliips go in on the S.E. fide but fmall Craft, Sloops, Barks and Periaguas, ©̌c.

In the N.W. Channel you have 5 to 6 Fa. Water, and 4 at the loweft Ebb. If you would go in, keep your Starboardfide clofe up to the very Rocks on the fide of the Illand; for there the Channel lies, which is very good but narrow, and not above half a Cable over. If the Wind happens to blow at S.W. as you are going into the Port, or over the Bar, you need not come to an Anchor tho it fhould blow hard; for if there be but Day-light enough, you may lead it up at pleafure ; for tho it thould be an Ebb, and that of a Spring.Tide, yet there will be Water enough.
If you are got in with your Broad fide to the Iland clofe up to the Rocks, and are at a lofs, and caunot get a Pilor, for they are not always at hand, then let go your Anchor right with a Parcel of Ground in Spots, over-grown with Thiftes and loofe Shrubbage ; and ridiag there till low Water, you will then fee the Flats in the Channel lic bare, and will know the better how to avoid them upon the Flood; and fo may go up with lafety.

Having thus mark'd out the Channel, weigh at about au Hour Flood, and ftrike over to the fandy Point which lies toWards the Main on the Larboard-fide, for the Channel runs that way; and keep on fo, founding all the way in 6 to 7 Fa . till you come up to that fandy Point: Then run along the tame Shore next the Point, and ler go your Anchor in the midway over, for that is the beft of the Road.

The Town is 3 Ls up the River: If you would go up with your Boat, there is another Courfe than that directed for your Ship, viz. Firft keep up to the N.W. or Larboard-fide of the River, as before, till you come to a Creek; pals that, and hold on to another farther up; pafs that alfo, till you come to a third, which feems to be fmaller than the other two. Go in there, and follow the Courfe of the Creek abour $1 \div \mathrm{L}$, it will bring you up to the Town, clote to the very Houfes.

From the Bar of Realejo to Confibina is 12 Ls , the Coaftlying W.N.W. and E.S.E. When you depart Realejo, Thape your Courfe S.W. till paft the Inand de los Aferradores, or of Sawyerr, which is ${ }_{4}$ Ls from the Bar of Realejo. That Inand is finall and plain, and muft be left to the N.E. Clofe to it, on the S.E. fide are two Rocks, and near them is the Mouth of a Creek, called alio de los Aferradores, or of the Saceyers; up which, Boats can pais at high Water. From thence the Shoals run out a L to Sea, one L beyond the illand de los $A$ ferradores, towards the N.W. and 2 Ls due N. up in the Inland Country there is a round Hill, the top looks as if it were cur off; 'ris called Meffa de Roland, that is, Orlando's Tablc.

From Meffa de Rolind to la Confibina is 7 Is, the Coaft low and rooded, and about a $L$ up the Country is a Hill, which bears the Name alfo of la Confibina; it was formerly a Volcano or burning Mountain, and burft open, fince when the upper Poiut has remain'd hanging as if ic would fall over.
Confibina and Volcan del Viejo, or the Old Man's burning Mountain, bear from one another E. and W. At the Port of Contilinn there are Docks for building of Ships, and they
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 the Port and theyfinall Ships may go upic. N.E. and S.W. wichin it there is a great burning Mountain, called alfo of St. Michacl, lying up the Inlands or 6 Ls in an open Plain, which has no other Emincuce about it : This Mountain cafts out Smoke, which may be feen out at Sea 20 Ls.
From the River of St. Michael, to that of Guibaltique, is 3 Ls W. the Coaft is all low Land, full of tall Mangrove Trees, next the Sea, with feveral Crecks. Many Shoals run out aboue a L to Sca from this River of Guibaltique, and the Extremity of it bears with that of St. Micbael N.E. and S.W. and with Confibina N. by W. and S. by E. dift. is Ls, all the Coaft low and fhoal, and the Sand-banks lie E. and W. Along thisCoaft ${ }_{2}$ Ls out at Sea, you may anchor in is or 20 Fa. and will tee the Country up within the Land is mountainous, and full of Hillocks far in.
From the River of Guibaltique to that of Limpa, is all a fandy Shore, with a high Sea going continually on the Coaft, the Land low, and the Water hooll; fo that you may anchor, as has been faid, in 20 Fa .2 Ls off the Land.
From the River of Limpa to Lacatccolula is 4 Ls: This is an Indian Town, but there are fome Spaniards among them with whom you may trade : The Country about produces abundance of Cocoa. Near the Town is a grear burning Mountain, of the fame Name with it ; it is $\sigma$ Ls up the River Limpa.

Two Ls up within the Land, and bearing with this burning Mountain N.E. and S.W. is a Hill like a Sugar-Loaf; and at this Hill begins the Coant of Tanela, or of San Salvador, that is St. Saviour: it is high Land next the Sca. The burning Mountain of St. Saviour is 10 Ls from that of Sacatcolula, appearing over the Coaft of Tonela, which is an indiflerent even Ridge of Land.
Four Ls to the weftward of the burning Mountain of San Salvador, is a Hill near the Coaft, called Bernal; and this and the faid burning Mountain bear from one anothcr E.N.E. and W.S.W.

At this Hill of Bernal commences the Coalt called de Las Italias, and the high Land of Toncla terminates : and from hence the low Lands on the Coant run as far as Point Remedios. being 10 Ls, and is called the Coaft Del Balfamo, or of Bal. Jam, being a low Ridgc levcl ar the top, ftrecching along the Sca-Coaft, and terminating before it comes to Point Remedios. Oppofite to the cad of this Ridge, bearing N. and S. with it, is an upright Hill lying 3 or 4 Ls up the Inland; it is flat at the top, and is called the liland of Italias; it is 7 Ls from the burning Mountain of San Salvador towards the N.W.

From the Hill of Italias to the burning Mountain of Sanfo. nate is ${ }_{3} \mathrm{Ls}$; and this burning Mountain bears with Point Remedios, which is the Port of Sanfonate, or Sanforette, N. and S.

Point Remedios is low next the Sca, and has a Rock flanding up by it, about which there are many Sands, fome of which run out above half a $\mathbf{L}$ into the Sea under Water: If you would go up to anchor in the Port of Sonfonate, be lure to give thote Sands a fufficient Birth. Point Remedios gives Shelter againft the S.E. Wind. N. B. All this Bay, which makes the Port of Sonfonate, is fhoal, and thereforc you mult caundossvou-come in till_the burning Mountain bears N. by
W.N.W. and ES.E. When you depart Realejo. thape your Courfe S.W. till paft the Inand de los. 1 firradores, or of Saw. yers, which is 4 Ls from the Bar of Realejo. That Inand is finall and plain, and muft be left to the N.E. Clofe to it, on the S.E. fide are two Rocks, and near them is the Mouth of a Creek, called aiío de los Aferradores, or of the Saseyers; up which, Boats can pals at high Water. From thence the Shoals run out a $L$ to Sea, one $L$ beyond the illand de los $A$ ferradores, towards the N.W. and 2 Ls due N. up in the Inland Country there is a round Hill, the top looks as if it were cut off; 'tis called Mefla de Roland, that is, Orlando's Tablc.

From Mefa de Rolind to la Confibina is 7 Ls , the Coaft low and wooded, and abour a $L$ up the Country is a Hill, which bears the Name allo of la Confibina; it was formerly a Volcano or burning Mountain, and burf open, fince when the upper Poiut has remaind hanging as if it would fall over.

Con,fìina and Volcan hel Vicjo, or the Old Man's burning Mountain, bear from one another E. and W. At the Port of Confibina there are Docks for building of Ships, and they go thence by Land to Realejo.

From the Point and Extremity of Conlibina to Port Martin Lopes, otherwife called El Condadillo, or the little Earldom, is $S$ L.s; and between them is form'd the Bay of Fon/fca, running up far into the Continent; and there alfo is the Ferry which they crofs over, who go by Land from Mapala to Folcundel Vicjo: This Bay is ro Ls over from Mapala to El $L$ icijo. Some Ships put into it to load with Tar, or to carecu, and there is every where 10 to 12 Fa. Water: You may go in boldly any where, as you have occafion: As foon as you are in, you'll fee 3 Ihands ftretching out E. and W. 2 of them large, and the middlemoft finaller ; one of them is called La Cancbagua, and other Miangola : you muft make for Canroagha, which lies farcheft W. of the three near the Continent, tounding all the way as you go up, and come to an Anchor ncar it, where you think fit: if you are unacquainted, and apprehend any Danger, you may go up in your Boat to find out the Anchoring-place at Mapala, which lies on the N.W. fide of the Ifland in the Nook of the Bay; but you'll readily find it; take heed your Cables be good, for the Tides run very ftrong. Thefe Inlands are inhabited by Indians, by whom you may be furnillhed with frefl Water, with fpare Mafts, and all other Neceflaries. Oppofite to the Illand is the River, the Mouth whereof you'll foon fee, and on it abundance of Mangrove Trees, fir for any Ship's ufe. This River of Canchagua and the l'oint of Confibima, bear from one another N.W. and S.E. dift. 8 Ls. On the W. fide of this Bay of Fonfeca is a high and flarp Hill, called the Hill of Amapala, or Mapala: and at the Foot of this Hill of Amapala, is the Port of Martin Lopes, otherwife called El Condadillo, or the little Earldom ; they lie in 23 deg Lat. N.
From Port Martin Lopes to the River of St. Miguel, or St. Michocl, is is Ls, the Coaft lying E. and W. high Land next the Sca, and without any Mangroves all the way to the River, in which there is 3 Fa. Water at the Flood, to that

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 the Port and they$t$ Martin ttle Earlof Fonfc. alfo is the a Mapala Mapala to or to ca. You may f foon as d W. 2 of 1 is called for Callontinent, n Anchor ud apprefind out N.W. fide y find it ; ry ftrong. a may be all other te Mouth Mangrove $4 a$ and the E. dift. 8 and flarp the Foot s, otherey lie in
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Italias, and the high Land of Tonela terminates : and from hence the low Lands oa the Coaft run as far as Point Remedios. being io Ls, and is called the Coalt Del Balfamo, or of BalJam, being a low Ridge level at the top, frecthing along the Sca-Coaft, and terminating before it comes to Point Remedios. Oppofite to the cnd of this Ridge, beating N. and S. with it, is an upright Hill lying 3 or 4 Ls sup the Inland; it is flat at the top, and is called the Illand of ltalias; it is 7 Ls from the burning Mountain of San Salvador towards the N.W.

From the Hill of Italias to the burning Mountain of Sanfo. nate is 3 Ls; and this burning Mountain bears with Point Remedios, which is the Port of Sanfonate, or Sanfonette, N. andS.

Point Remedios is low next the Sea, and has a Rock ttanding up by it, about which there are many Sands, fome of which run out above half a $L$ into the Sea under Water: If you would go up to anchor in the Port of Sonfonate, be fure to give thote Sands a fufficient Birth. Point Remedios gives Shelter againft the S.E. Wind. N. B. All this Bay, which makes the Port of Sonfonate, is fhoal, and thereforc you mult found as you come in, till the burning Mountain bears N. by E. giving a Birth to the Point and Sands as above till you come into 12 Fa. and when you are in this Depth, and right before the Store-houfes, you are in the beft Anchoring-ground: you'll fee the Store-houles upon a Crag, and then you'll be half a L from the Land; go no nearer the Shore than is Fa. for there are Water-Rats that gnaw the Cables, which you mult be fure to take care of. If you would ride fafe here, keep the burning Mountains N. by E. and the Mouth of the River N.E. but take heed how you go alhore, for there is generally a great Surf : you muft land near a parcel of Stoncs which are before a Crofs in the Nook, or you will be in danger of ftaving your Boar.

From the Fort to the Town of the Trinity is 3 Ls: If you would put into this Port of Sonfonate, you muft firt, while you are but at Sea, make the burning Mountain that has the top broken off, and looks whitifh by realon of the great Quantity of Alhes abour it. Farther on towards the N.W. is another little burning Mountain, call'd de le 'Paneca, dift. about 3 Ls fron that of Sonfontate. Near this laft are 3 or 4 little SugarLoaf Hills, bring them one in another, and then you go fair with the Port.
To ride fafe in this Harbour, you muft keep the Ridge of $\mathcal{P a}$ a naca N. by E. and S. by W. in 7 Fa. Water, and the Mouth of the River N. and S. dift. a quarter of a L .
Berween the Port of Sonfonate, which others call the Strand of Catalta, and the Strauld of Eftapa, the Coant lies W. by N. and E. by S. the dift. 26 Ls. This is the Port to the City of Gual. timala. All the Coaft is low Land, landy and full of Mangroves next the Sea; but there is clean Anchoring-ground all the way.
From Catalta or Sonfonate to the River Maticaloc is 7 L.s, This River is much expofed to the northerly Winds: Oppofite to it there are fome finall bur high Hills, by which it is known ; and at the Mouth there are no Mangroves, which is very particular, for they grow very thick and high all along the Coaft, except ouly at this Place,

## Sailing Directions for the $W e$,

Four Ls to the weftward of Moticalo is another great River, which has : Fa. Water upon the Bar. From this River to the Bar of Ejfapaz is 1 L Ls. This River of Effapa and the burning Mountains of Gitutimala, bear from one another N.E. and S.iv. N. B. That the Land-murks to know this River of $E$ tiap, by, are the talleft Mangroves of the whole Coalt growing about it; and in the middle of thete mighty Trees, is the Bar or Entrance into the River.

The Bar of Eflafia and that called Tectantepeque bear from each other N.W. and S.E. all low Land, and full of Mangroves next the Sca; but high, and withmany burning Mountains up the Country. From the Bar of Eflapa to Tecuantepeque, which others call Siquctop cquc, is 6 I I.s, as particularly mention'd below.

Abour is Ls from Eftapa towards the N.W. is another burning Mountan: It is upon a Ridge of very high Land, in the highect part of all which the burning Mountain thoots out; it is call'd the lolian of Sapotitlan.
From S.apotathan to Malpas is ia Ls. Thefe are two other burning Mountains; all thefe are within Land, butare high Marks to know the Coaft by, and to direct the Sailors, being feen far at Sea.

From thefe burning Mountains of Malpas to that of Socomatco is 12 Ls alfo: This is a low burning Mountain, lying near the Sea-Coaft, which is alfo low there.

From the burning Mountain of Soconufcoto the Encomienda, or the Hill of the Ciofs, is 7 L.s. This Hill of the Crofs is but low ; it is dift. from the Sea about half a L , and on it is a Croff form'd by the Greens growing on the Flat, which is to be foen the Year abour; and therefore it is called Lai Encomienda, or the natural $\mathrm{Cra} / \mathrm{f}$. There is good anchoring all along this Coaft ; and at this Hill of the Cro/s Ships take theler when the N. Wiuds are boifterous, or clic at Tecuantepeque, if they cannor reach to Bernal, or 'Por i Mofguitos.

From La Eincomicuda to Barual, which is the Entrance into the Bay of Tecuantepeque, is 5 Ls. The Mountains appear rumning out from the Inland. Towards Bernal and the Sea, rill within half a $L$ of it, as you come coafting from Soconnf(co, this P'oint feems to run out iuto the Sca, and the high Land to twminate there ; but it does not, but returns up the Inland to. Wards the NiE.
This Hill of Bermal and the River of Samilitam bear from one another E. and W. dift. 41 Ls, as follows, viz. Frem Bernal to Port Mofquitos 9 Ls, low Land, wooded with Mangroves. In this Port ilofguitos Slips anchor when the N . Wind rages : and from it ruus $A$ River, which purs out many Banks of Sand towards the N.W. and there is a grear Surf on them, tho the Sca docs not run very high on the reft of the Coall, all this Country about bcing liable to Inundations. Three Is up the Inland are fome higher Grounds which look like Illands, the Water often flowing about them when the Frethes or Floods from the Country are high.

From P'or- Monguitos, to the Bar or Port of Tecuantepeque is 8 I.s: near the Bar is a parcel of lofty Hillocks, being

## ns for the Weft Coaft of New Mexico.

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other Spots of white Sand all along the Coaft, except 2 or 3 at Salimas. On the top of all the Head-iand is a Peak like a liete burning Mountain, which isfeen 10 to 12 Ls out at Sca ; and ucar the Head-land in the Watcr is a dangerous Bank of Sand.

From thefe Head-lands of Macatal to that of Bada is +Ls ; and clofe by it is a dangerous Shoal a $L$ out at Sca,and they bear from one another N. and S. It is all high Land and Rocks, and next the Sca landy Stands at certain diftances.

From the Head land of Banda to the Iflasd of Itata is $\mathbf{y}$ Ls: This Inand of Itata is clofe up by the Land, within a quarter of a L, between them, in that Space, is good Anchoring, fheltred from all Winds; the Ifland is finall and white, and is cleft in the middle. Half a $L$ from the Head land is a frclly Water River, and an Indian Town: The Coalt is boid, and tho the N . Wind blows you miy land very fafely.

From the Inland of Itata to Point Artila is $7 \mathrm{Ls}, \mathrm{mcft}$ of it fandy Strands; and between the Illand and the Point is the Town of Guama a L up within Land. Short of Point Artca is a Farm of black Catte, where is allo Water and other Necelfarics: if you have occafion, you may lafely land at this Pome of Artea. unlefs the S.E. Winds blows, for that makies a great Surf. This Point is low, and at a dift. looks like a litele Illand; it affords Shelter againft the N.W. and W. and S.W. Winds ; all this Coalt lics W. by S.

From Point Artea to the River of Samilitam is 4 Is, where is an Indian Town allo, with frelh Water, and what ellic you may ftand in need of. Going along the Shore where the Strand ends, is the Riscr, where you may water, fo: there is no great Sca gocs there; and there is a Creck within the Point, where your Boats lic quict.

Fromthe River of Samilitam to the River of Copalita is 2 L.s; this is a great and decp River, and along by it runs the Road from Guabaca to the Sca; there is Anchoring-ground all along this Coaft, the Land clean and level, and the Shore clear from Rocks.

To the weftward of this River of Copalita is the Harbour of Guatulco, the Port to the great Cities of Mexico and Giuaxaca, a late Place and thelter'dagaint all Winds except the S.E. The Mark to know this Port by off at Sca, for it is clofe hid up, is a L before you come to it, a little round monntainous ifland, called Tangolatango. At the Mouth of the Harbour is mother little Ifland without any Trees: A little farther to the weltward is ELPuf:dero, that is, the Roaring'Place; and when the Wind blows you will hear it roar a great way off. If you come in from rhe feaward, you'll fee a high Mountain jult before you: then make for the Harbour, kecping the higheft patt of that Mountain right a-head. When you are in the Harbour of Guatulio, keep to the E. fide, and anchor under fome Hills which lie near the Shore, for there is mof Water and beft Shelece.
There is a fine Strand runs from the Port of Cimatulco to Cal. luta, whither the Boats go for Water: you'll fee a lietle Illand to the weftward, where you may anchor while you fetch Water. About a L to the weftward of this Watering ifland is another Ifland, and to the Landward of it is good Auchoring-ground, till wethin half a $L$ of it, as you come coafting from Soconu/io, this Point feems to run out into the Sca, and the high Land to terminate there ; hut it does not, but ictures up the Inland to. Wards the N.E.

This Hill of Bernal and the River of Samilitam bear from one another E. and W. dift. 41 Ls , as follows, viz. From Ber. nal to Port Mofguitos g Ls, low Land, wooded with Maneroves. In this Port Mofquitos Ships anchor when the iN. Wind rages; and from ir ruus a River, which puts out many Banks of Sand towards the N.W. and there is a gicat Surf on them, tho the Sca does not run very high on the reft of the Coall, all this Country about being liable to Inundatiens. Three Ls up the Inland are fome higher Grounds which louk like Ilands, the Water often flowing about them when the Frethes of Floods from the Country are high.

From Port Mofquios, to the Bar or Port of Tectuantepeque is 8 Ls: near the Bar is a pareel of lofty Hilocks, being lllands in the River, by which it is known where the Bar lies. To the N.W. from this River is a round Hill or Head land, called Morra del Cbarbon, or the Mead-land of Coals, tho we do not find there are any Coals there about.

From the Bar of Techantepeque to Lelentofir is 4 Ls; this is called Capel ertofa, that is, the windy or formy Cape, becaule it lics open to the Welterly Winds, which arethere very boilterous. Here Ships take in the Cannon andotherStores which are brought down by the River of Ciadfacalen from the $\mathbf{N}$. Sea, (there being but 9 Ls of Land Carriage between) for the ufe of Ships bound in the Pbilippmes: The Ships that are to crofs this Bay of Ticiantepique ufually come to an Anchor, as has been fidd, at Bernat, Port Wighetos, or any other Place about the Bay. When you are to crofs this Bay of Tecuantepeque, be fure to keep as clofe und= the Land as you can, for the farther you are out at Sca, the worfe it is; and contend not with the $\mathbf{N}$. Wind, for Ships are frequently loft by fo doing, or at leaft obliged to throw over-board part of their Lading. When you are half over the Bay towards the N.W. the Winds come larger, and you may ftecr duc W. You ought to be but 2 Ls from the I and of Bernal, when you crofs this Bay, and always keep up towards the Land, as above.

From the Bar of Tיruantepeque to Las Salinas, or the Salt Pits, is 6 Ls, the Coait lying E.S.E. and W.N.W. At thefe Salt Puts the low Land terminares, and before them are two high Rocks, to the Landward of which is a Harbour for Ships. Hence they carry Salt to Tectuntepeque for all the Inland Country.

From Srainas to 'Puerto de los Angelor, or Port of Angles. is 3.3 Ls , the Coaft lying W. by N. and E. by S. from Salimas to $(2$ :utateo 25 Ls, all clean Anchoring-ground, and a faic pleatant Coaft.

From Salinas to the Head-land of Macatan is 2 Ls. At this Headland a freth Water River falls into the Sca; the Head-land it felfnext the Sea looks black, and is very rocky; but the Top is white, having a Spot of Sand, and there are no

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Gllatiatro, the Port to the great Cincs of Mexite and (iuldaven, a fate Place and lhelter'd againlt all Winds except the S.E. The Mark to know this Port by off at Sea , for it is clofe hid up, is a $L$ before you come to it, : litele round mountainous Inand, called Tangolatango. At the Mouth of the Harbour is another little Inand without any Trecs: A little farther to the weftward is ELPufadero, that is, the Roaring Place; and when the Wind blows yun will hear it roar a great way off. If you come in from the feaward, you'll fee a high Mountain juilt before you : then make for the Harbour, kecpin; the higheft part of that Mountain right a-head. When you are in the Harbour of Guatulio, keep to the E. fide, and anchor under fome Hills which lie neas the Shore, for there is moft Water and beft Shelecr.

There is a finc Strand rums from the Port of Cinatulco to Cal. Luta, whither the ! Boats go for Water: you'll fee a little Ithand to the weftward, where you may anchor while you fetch Water. About a $L$ to the weftward of this Watering ifland is another Illand, and to the Landward of it is good Anchoring-ground, fafe from all Winds; it is called Sacrificios, or the Ife of Sac?: fices; and there allo you may water, with great Convenicncy.

From this lland of Sacrificios to the River of Coitula is 3 LS , a decp Coaft, and bad Landing, becaufe of the Surge of a high Sca on Shore.

From this River Coitlla to the River of Fulian Carra/io is 4 Ls. This River runs out at the Strand, where there is a good Landing-place ; but before you come to it there is a high Bank of Sand, which appears above the Water like a Tortoific, about a quarter of a $L$ from the Mrid halfa $L$ from the River bearing from one another N.W. and S.E.

Betwen the River of "fulian Cairafoo and Purio de Alugelos, or Port Augels, is a Creck which affords very good Shelter for finall Veffels: To the S.E. from this Creck there runs out into the Sca a Row of litele high Rocks, about half a L ; there is no frelh Water in that Creck, or near ir. In the Way from ir, thort of Port Augc/s, is a dangerous Bank of Sand under Water; and near it is a little high Rock, which bears with the Port N.W. and S.E. Port Alugets is a very good Harbour ; and within it on one fide is a Creck. The S.E. fide of this Harbour affords better Shelter then the other ; it is a high Land on both fides; bot towardst \& is at the Mouth of it is a high Rock, and up fome way in: \& rack a Brook rums down to the Shore, which is to fandy that in Seream is loft in the deepSands; a litele higher you may fee the Brook run down, and a Ground of Reeds in it. In this Port there is lome Wood to be had, but not much.

From Port Augels to the Rir: hat runs by $l i$ Galira is; Ls; and here terminates the Coalt, bearing E.S.E. and W.N.W. From this River de la Galera runs a large tandy Shore, and above that Shore are abundance of Mangoves, fo large that they may ferve to make Mafts for Ships; an they extend about ? Is : The Coaft is upright, with good Anchoring-Grounds all the way; and within the Land divers Hills and Dales, with greater and leffer Staneds flectching on towards Le Cialora.

## Sailing Directions for the Weft C

From the River de le Galera to that of Mafia the Courfe is N.N.E. dift. 18 Ls. This is a frelh Water River of a pretty long Current ; it fivells much in the rainy Scafons, and thofe Swellings are of long Continuance. There is a Town upon the B.ank of the River called alfo Maffia: half a L without the River there is a fmall Ifland and a parcel of little Rocks; you muft kecp at a diftance without thole Rocks.

From the River Ma/jiza to a Point which lics 2 Ls to the weltward, is a little Rock which is very dangerous; and behind the taid Point a litele Rivulet runs into tine Sca. When the Wind blows at N.W. you may go aflore there for Water, which is to be had to the S.E. of the Point, where the Sca is ftill, and makes very little Surf upon the Shore.

From this Point and River to $\mathscr{P}$ uerto E fondido, or the Hidden Harbour, the dift. is 8 Ls. Puerto E/condido is a fmall Bay, having a Point which runs out into the Sca half a L beyond the Shore : and a little way within that Point is a fimall I Iland, which clotes, and makes the Harbour. There is good Anchoring to the Landward of that little Ifland, tho the W. and S.W. Winds thould drive in ; and you may fafely go afhore in your Boat.

From 'Puerto Efcondido to Tcfaucrio de Don Garcia, or Ton Garcia's Fi/bery, is 30 Ls, the Land all Vales and open Strands, withour any Harbour. Ten Ls to the weftward of Puerto E/condido, before a parcel of Crags, which you will fec above Water, there are many dangerous Shoals, which run out 2 l.s into the Sca, and fhew themielves at the Bottom ; for there is but a Fa. or a Fa. and a half Water upon them at the loweft Ebb: Take hecd of them, for they lie above $=$ Ls in length. The Crags and they, bear one from another N. by E. and S. by W. dift. 2 Ls.

From thete Crags and Shoals to the Port of Acapulco is 2 LS, the Coaft lying W.N.W. and E.S.E. Threc Ls to the weftward of the Shoals is a little white Inland, where there is good Anchoring-ground, and it is called the Illand of Alcatrafes, being halt a L from the Continent. To the weftward of the faid illand is a River, which runs out as far as the Illand, and there Ships may water; the Coaft is mountainous, and the Shore upright: Between this Place and Acapulco are abundance of Crags, and broken Rocks on the Shore.

From this River to Don Garcia's Fijberies, is is Ls, a fpacious Shore, ftretching out as far as Port Marquis, which others call Puerta Chico, or the Little Port. Near thefe Filheries are $=$ little Rocks, and a frefl Water River, the Place gencrally very ftill; buc when the Sca fivclls with an cafterly Wind, it is very boifterous.
Between thefe Rocks and the Port of Acafullo the Coaft bears N.W. by W and S.E. by E. to Port Marquis 5 Ls; and from Port Alarquis to Acapulco 1 L. If you come in from the Scaward you'll fee 4 Mountains, the firft next the Sea fomewhat low, but the others rife higher gradually behind one another ; on the higheft is a burning Mountain towards the S.E. At the Foot of all thefe Mountains is the Harbour of Acapulco, tipacious and very fafe : and a little without the Mouth of it is an Illaud; on the N.W. fide of this Illand is a narrow Channel, at which Ships may lafely go in, for there is Water enough.

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$a$ the Courfe is cr of a pretty pns, and thole own upon the ithout the Ri Rocks; you
$\mathrm{cs}_{2} \mathrm{Ls}$ to the rous; and beSca. When the Water, which jca is ftill, and
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S Is Ls, a fa$s$, which others thefe Filherics Place gencralafterly Wind, it
the Coaft bears Ls; and from in from the ScaSca fomewhat I one another; te S.E. At the Icapulco, fpaciouth of it is an urrow Channel, Water enough.

Continent in to Fa. Water; the fame is all along the Coaft, the bottom clean, and a holding Sand or a fliff oazy Sand all the way.
From Point Tequepa to the Head-land of Petaplan is io Ls N.W. This Head-land looks like a little Inland; and a quarter of a $L$ to the feaward of it are three very white Rocks, which at a diftance look as if they were all butone: You may pals between them and the Head-land, and come to an anchor clofe to them, next the Continent, in a convenient depth of Water : Under thefe Rocks, there is Shelter fufficient againtt the S. and S.W. Winds as alfo on the N.E. fide of the Head-land, becaule the Coaft ftretches out E. 2 Ls : It is all clean, and you may land upon the Strand behind the Head-land. At the End of the Bay, about half a L up, there are Sctlements of spaniards, and an Indian Town or two.

About ${ }_{4}$ Ls N.W. from Petaplan is a little Rock about half a $L$ from the Continent, the Coaft lying $N$. and S. About the length of thefe Rocks is a good Harbour, call'd Siguatanero. Note, Tho this Port cannor be feen from the Offing, as foon as the Rock comes to bear N. you'll fee it, and you may pal's by either fide of the Rock. A L farther towards the N.W. there are 5 or 6 Illands great and fimall, where is a Village, but inconfiderable, towards the S.E.

Two Ls ftill N.W. from thefe Rocks, is a Spor of high hilly Land, call'd the Land of Tacomatant; and before this Land, clofe to the Sca, is a Town calld Iftapa; and on the Brink of the Sea is a finall Spot of Land, which looks like an Illand, fhelter'd againft all Winds from E. to S.E. This Spot of Land may be feen for 10 Ls evcry way, becaufe it is high, and the reft of the Land low.
To the N.W. of Iftapa is a flat level Shore, without any Harbour for about ${ }_{12} \mathrm{Ls}$, in fome places full of Trees, and ar the End of it a Spot of thick and greenMangroves. There is the Mouth of a large River call'd Sacatulca: Halfa L up the River is a Spanifh Town call'd the Town of Sacatulca. Note, That you muft keep within 2 or 3 Ls of the Land, to be able to make thele Land-Marks : Over the River of Sacatulca next the Sea are fome Hills, the leaft of them opens without Trees.
From this River of Sacatulca the Land trends away N.W.rugged next the Sca, with feveral Hills of moderate height, call'd Los Mattinas: This high rugged Land holds tor ${ }_{25}$ Ls. In the higheft part of the Land, about halfa L beyond S'acatulca, you'll tee two Hills as it were little Dugs, very clofe together; and when you are near the Land, bearing $N$. and $S$. with them, you'll difcover an indifferent high Rock, with a Spot of Strand like a Creek: When you bear N . and S . with it, you may difcern the white Church of a great Town call'd Tutapun. You may anchor to the fouthward, between the River and the Strand, in 4 Fa. Water, clean Ground: And if you would go a Shore, make up to the End of the Strand towards the N.W. near the Stones, and you'll ice the way to the Town, which is inhabited by Indians.

Four Ls te the N.W. of Tutapan is a Point, indifferent high with a Parcel of Rocks by it, on the S.E. fide, which you will not fee unlefs near the Land. Between thefe Rocks and the Land to the S.E. is a piece of a Strand like a Creek, and a very green
laid llland is a River, which runs out as far as the llland, and there Ships may water; the Coaft is mountainous, and the Shore upright: Between this Place and Acapulco are abundance of Crags, and broken Rocks on the Shore.

From this River to Don Garcia's Fifberies, is 15 Ls, a fpacious Shore, ftrctching out as fir as Port Marquis, which others call Puerta Clico, or the Little Port. Near thele Fifheries are 2 little Rocks, and a frefh Water River, the Place gencrally very ftill; but when the Sca fwells with an cafterly Wind, it is very boifterous.

Between thefe Rocks and the Port of Acapulco the Coalt bears N.W. by W. and S.E. by E. to Port Marquis 5 Ls; and from Port Marquis to Acapulco 1 L. If you come in from the Seaward yon'll fee 4 Mountains, the firft next the Sca fomewhat low, but the others rife higher gradually behind one another ; on the higheft is a burning Mountain towards the S.E. At the Foot of all thele Mountains is the Harbour of Acapulco, fpacious and very fafe: and a little without the Mouth of it is an llland; on the N.W. fide of this Ifland is a narrow Channel, at which Ships may lafely go in, for there is Water enough. When you fail in on the S.E. fide, which is a wide Channel, you'll fee a Bank of Sand above Water, called Del Grifo; leave it on your Larboard fide : but you muft keep clofe to it to lail in, and run very hard up with a little Point which lies there juft by it; and youll foon fee the 'Town within. To the weftward on the Shore you'll fee 2 little Rocks, which you muft avoid. Port Marquis ftretches out N.W. and S.E. the Mouth of it lics E.S E. and W.S.W. it is a fafe Harbour and very deep, having 20 Fa. Water within the Bay. The Marks to know it by are the high rocky Land beyond it; and next the Sea is a round Hill. Somewhat higher, oppofite to the Harbour, on the faid Hills, you'll fee fome red and white Stoncs, which appear as it were thro' a Mift. Obicrve the Land-marks well, for the Harbour lies up very clofe: Take fpecial heed you mils not the Illand. On both fides of Port Marquis, as far as Acapulco, the Shore is rocky for about 2 Ls , and on both fides of thefe Rocks low Lands and landy Shores; and in the midft of thefe Rocks is the Port of Acapulco.

From the Port of Acapulco to that of Natividade or the Nativity is 70 Ls: the two Ports bear from one another N.W. and S.E. Coming out of the Port of Acapulio to the weftward, you'll tee a fpacious Strand, extending above 24 Ls in Jength, all of it low Land next the Sea, and with many Palm-Trecs infeveral Places; it is called the Strand of Sitala, or of Apufagula. At 18 Ls dift. from Acapulco you'll fee a Spot of Mangroves higher than all the other Trees, about a $L$ up the Inland, and ftretehing out half a $L$ along the Coaft, which is here called Tequepa. Five Ls farther N.W. is an upright Point next the Sea, not very lofty; the highelt part of it at a diftance looks like Inlands: Here is Shelter againft the W. S.W. and S.Winds, which are the moft boifterous on this Coaft in Winter. When you are here you will fee a white Rock Itanding out a quarter of a L from the Land; there is good Anchoring ground between it and the
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is 15 Ls , a fpais, which others thefe Filheries Place gencralafterly Wind, it
the Coaft bears Ls; and from in from the Scae Sca fomewhat d one another ; he S.E. At the 1capullo, , ipacilouth of it is an arrow Channel, Water cuough. wide Channel, ed Del Grifo; keep clofe to it oint which lies vithin. To the which you muft S.E. the Mouth and very deep, arks to know it cxt the Sca is a hc Harbour, on ones, which ap-ind-marks well, 1 hecd you milf , as far as Acaon both fides nd in the midft
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From this River of Sacatulca the Land trends away N.W.rugged next the Sca, with feveral Hills of moderate height, call'd Los Mattinas : This high rugged Land holds for 25 Ls. In the higheft part of the Land, about half a L beyond S'acatulca, you'll fee two Hills as it were litdle Dugs, very clofe together; and when you are near the Land, bearing N. and S. with them, you'll difcover an indifferent high Rock, with a Spor of Strand like a Creck: When you bear N. and S. with it, you may difcern the white Church of a great Town call'd Tutapan. You may anchor to the fouthward, between the River and the Strand, in 4 Fa. Water, clean Ground : And if you would go a Shore, make up to the End of the Strand towards the N.W. near the Stones, and you'll fee the way to the Town, which is inhabited by Indians.

Four Ls to the N.W. of Tutapan is a Point, indifferent high with a Parcel of Rocks by it, on the S.E. fide, which you will not fee unlefs near the Land. Between thefe Rocks and the Land to the S.E. is a picce of a Strand like a Creck, and a very green Valley: Here is good Anchoring and Shelter from the W. and N.W. Wiuds in 12 Fa. Water: The Place is call'd Muibata. If you have Occafion to go a Shore, you'll find Indians, who generally refide there, and followTillage: There you'll fee the River, which runs only in Winter, and the way which leads up the fame River to the Town, flanding on the Top of a Hill call'd Pomaro.

Six Ls from this Town of Pomaro is a high Point reaching up perpendicular next the Sea, looking like an Inland or fmall Head-land, call'd Tachifi: And here ends the Land abovemention'd call'd Motina. Tho this be rugged Lan!, like all the reft of the Coaft, yer there are Strands and AnchoringPlaces, and Shelter from the N.W. Winds, which are the moft boifferous along the Coaft during the Summer Scalon. To the N.W. of this Point is plain Land, full of Mangroves : Kecping an Offing of about 3 Ls, from this Point you'll fee a Parcel of Ridges, or high Land, all Campain Country, it is calld Colima. Amoug thefc Ridges is a mooth Break running N.E. up the Country ; and if it be clear Weather, you may difcern thro' the farther part of the Break a burning Mountain continually fmoaking, and calld the Burning Monntain of Colima; it is all cover'd with Cattic, and Orchards of Cocao.

Eight Ls from the Valley of Colima, is a very rough Headland call'd Sau Tiago ; and on the S.E. fide of it are two Hillocks like Dugs : Between thofe Dugs and the Head-land of San Tiago is the Port of Salagua. In order to know this Port of Salagua, you are to obferve. that there is a very white Rock clinging clofe to the Head-land of San Tiago, which may befecu ar 8 Ls diftance, whatlocver way you come towards it. Between this Rock and the oppofite Point being about $;$ Ls diftance, is a Bay with a Strand: Farther up, it is all wooded. If you would put into this Port of Saligita, ftand ftrait in for the Strand, for at the Ends of it there are two very good Har* B b b
bour:
bours, where many Ships ride ; they are calld Las Calletas, that is, the Creeks : That which is to the N.W. of the faid Strand is allo very lafe, land-lock'd againft all Winds, tho fimaller than the other. In this Port of Salagua is a frefh Watcr River, and there are Plantains and Woods. As foon as landed, you'll fee the Road that leads to Salagua, which is a $L$ and halff from the Sea. Note, That between Salagua and the White Rock is the Port of Sant Tago.

Six Ls N W. from the $W$ 'bite Rock is a little Head-land, which afar off looks like an Ifland ; 'tis all craggy next the Sca, with a little Rock clofe by it, which looks like a Sugar-Loaf. On the N.W. fide of this Rock is a Strand about a $L$ in length, call'd the Port of Natividad, or the Nativity.
At the End of the Coaft, which forms that Port, towards the N.W. is another Port, by the Natives call'd Melaque, and land lock'd againft the N.W. the W. and S.W. Winds.
Bare $;$ Ls from Port Melaque is a Row of four or five Rocks above Water, or finall naked Illands, running from the Contincut, and flectching ont N.W. and S.E. and if the Weather be fair, youll fee the Burning Mountain of Calima to the caftward up the Country, fmoaking between thefe Rocks and the Port of Acapulco. The Coaft lies E.S.E. and W.N.W.

Four Ls N.W. from thefe Rocks or Illands, about half a L from the Shore, and at a diftance, are other great Rocks, which ook like Ships under fail, call'd the Rocks of Aquiapafileo; you may fafely anchor near them, clofe under the Shore, for Shelter againft the Sea and Winds off.

Between 2 and 3 Ls to the N.W. from thefe Rocks is a low Pdint, with high Crags, and a little Rock, or bare Inand, clofe to it, on the N.W. fide whereof is good anchoring under thelter from the S E. to the S.W. At this Point runs in a Bay trending towards the N.E. about 8 Ls, where you'll fee two or three fmall low Iflands call'd the Iflands of Chametla; between which and the Continent is very good anchoring : The way in, is from the S.E. There is a Filhery belonging to the Town of the Purification, which lies $I_{4}$ Ls up the Country.

From thefe Iflands of Chametla the Coaft runs to the N.W. a firait Shore as far as Cape Corrientes, or Currents. When near the Cape, if you happen to meet with any Squals of Wind at N.W. therc is a Parcel of upright Crags next the Sca; make directly for them, becaufe to the S.E. clofe up there is very good a nehoring, fhelter'd from the N.W. the W. and the S.W. Winds : The Place is cal'd Los Salinas del Piloto, or the Pilot Salt-Pits, by reafon Salt is made very near this Place.

## Sailing Directions for the great Run over the $S$ of California to the IJlan

E arc now at an end of all Survey, if not of all Difcovery: None of the Pilot-Books or Chates, whethet printed or Manufcript, in our own Language or any other. at Icaft that we can_mect with

## Direltions for the Southern Ocean.

as Calletas, that the faid Strand tho fimaller than h Water River, is landed, you'll L and half from : White Rock is
ittle Head-land, gy next the Sca, c a Sugar-Loaf. ut $2 L$ in length, y.
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fe Rocks is a low , or bare Inand, anchoring under int runs in a Bay c you'll fec two f Chametla; beanchoring : The belonging to the up the Country. runs to the N.W. 'urrents. When y Squals of Wind kt the Sca; make up there is very W. and the S.W. $\neq 1$ Piloto, or the near this Place.

The aforefaid Cape Corvientes being in 20 d . of N Lat. is indifferent high Land, rifing by Degrecs, barren, and bearing few Trecs; but up the Country there appears above it a high Ridge of Mountains from many Heads, calld Los Coronados.

From Cape Corvientes there ruus in a Bay E. by S. 10 or 12 Ls. All the Land to the N.E. and N.N.E. is low, and looks very plealant to the Eyc: This Bay is 6 or 7 Ls in breadth; and all the low Land, which is full of Guagazes, belongs to the Liberty of the City of Compoficlla.

From Cape Corrientes to the Point as the other End of the aforclaid Valley is about to Ls N. by E. and S.by W. The Point forms a round Head-land of an indifferent Size, which looks like an Ifland without any Trees on it, and is calld Point Ponteque. In the Offing to the weftward of it, are two fimall Iflands call'd the Ifles of PPonteque, alinoft a L from the Continent : Ships may fafcly pals between them and the Shore. On the W. of thefe Illands are fome fimall Rocks, and then a Bank of Sand on which the Sca breaks, at the End whercof are two other little Rocks, the whole extending 2 Ls.

Three Ls to fcaward of thele Rocks is anorher fmall one, cleft in the Middle, which at a diftance looks like a Ship without Mafts: You may fafely palis between this and the Rock of Ponteque.

About ${ }_{14}$ Ls N.W. by W. from the faid Rock are three large Inands and a imall one; the three great are call'd Los Tres Marias, or the Tloree Marys, the leffer la Ifla Baxa, or the Low Ifland, lying towards the N.E. and by it a white round Rock: All thele Iflands lic N.W. and S.E.

From the Rocks of Ponticque the Coaft trends on N.E. about 20 Ls to the Port of Matanchel; and if the Weather be clear, you'll fce a very high Hill over the Port, with a Break on the Top, which is call'd the Hill of Xalifo, and may be very well made 8 or 9 Ls before you come to the Port of Matancloce. In a Bay with a fandy Shore joining to fome high Land, at half aL diftance from the Shore, you'll lee a finall round mountainous Illand call'd Maxantalla ; and on the Shore oppofite to it, are Orchards of Cocoa, and grazing Lands. About 2 Ls to the N.W. of this Inand is a Piece of Land full of fmall red Crags, where this Courle cuds.
Thus far the Spanijh Charts direct, and no farther being to the Lat. of 26 d . Some Navigators may have gone farther; but as we have little Account of them, and there is no Traffick beyond it, that we know of, here muft cad our Survey of the Wefl Coafl of America.

## Run ower the Southern Ocean, from Cape Lucas on the Coaft nia to the IJlands of Ladrones, inclufive.

if not of all DifIr Chares, whether Language or any
fent is, that Prake, tho a bold and skilful Sailor, yet being the firt that ever failed that Courfe, kept a more unfteddy fecrage, fometimes more to the northward, and then again nearer the

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5windE are now at an end of all Survey, if not of all Difcovery: None of the Pilot-Books or Charts, whether printed or Manufcript, in our own Language or any other, at leaft that we can mect with, carry us any farther on the fide of the main Land: nor do the Spanilb Manuferipts give any Account that may be depended upon farther N . or N.W.
'Tis faid indeed that Sir Francis Trake failed up between the Land we call California and the Main, as high as the Lat. of 43 d . N. in hopes of finding a Paffage that way into the great Cbincfe Ocean, and to to have made home by the Eaft Indies: but he found it impracticable; and tho 'tis like he went not fo far to the bottom of this Sca as to make Land at the extremeft part, and afcertain the great doubr, whecher it was an open Vare or Paffage of Warer, or a mecr Gulph, a Bay in which there was no other Outle but by the way he went in; yet he brought it to this Certainty, that if there was any fuch Paffage out, the extremity of the Cold, and the violence of the Winds, which blew Trade from the N. was fuch, that Nature was not able to fupport it; and he was forc'd to come back the fame way, only kecping to the fide of California: He by that means kepe to the weftward, fo far as to reach Cape Lucas, which is the fouthermoft Point of Land on that fide; from whence rounding the Point, and following the Coalt which gocs aw? W. and N.W. he kepe the Land aboard, tracing the Shore, sill he found it carry'd him too far to the northward; whe: at length he left it, and ftood awray to the Latit. of 13 to $15 \mathrm{~d} . \mathrm{N}$. in which Courfe he held on W. till after 11 Wecks Sail, without fecing Land, he made the Ladrones, being much the fame Courfe which all the Navigators, who have thus circled the Globe after him, have purfued.

It is truc. Sir Francis left no exact Journal of his Voyage, with the Lat. and Dift. of Places, the Courfe he held. and what way he made every day, as others have done; and fo we cannot judge what occafion'd his being fo much longer in the Run from California to the Ladrones than others ulually are now: otherwife we might perhaps account for the Difference. and know how Captain Rogers made the fame Courfe in 8 Weeks, which Wrake made in 'Wecks of: What we can fugget at pre-

## Sailing Directions for the great Run over the So of California to the Iflana Clifornia to the Jla

 for Li C to bc far thuns to the N.W. rents. When Squals of Wind the Sca; make , there is very $V$. and the S.W. CPiloto, or the acar this Place.

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## ?un oier the Southern Ocean, from Cape Lucas on the Coaft

 ia to the IJlands of Ladrones, inclufive.f not of all DifCharts, whether anguage or any h , carry us any c Spanifb Manuupon farther N .
iled up between ligh as the Lat. way into the me by the $E a / t$ tis like he went Land at the exiether it was an ulph, a Bay in he went in ; yet as any fuch Pafviolence of the ch, that Nature come back the $a:$ He by that h Cape Lucas, that fide ; from he Coaft which ard, tracing the the northward; c Latit. of ${ }_{13}$ to after if Wecks res, being much o have thus cir-
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fent is, that Trake, tho a bold and skilful Sailor, yet being the firt that cver failed that Courfe, kept a more unfteddy flecrage, fometimes more to the northward, and then again nearer the Line than is now ordinarily done; which Variation of his Courfe muft take him up the more time, befides that the more to the northward he went, the more variable would the Winds be; whereas Rogers and Cook keeping generally within the fame Latit. viz. of 13 d . N. of the Line, had alnoft all the way the fame Winds, that is, from the E. by N. to E.N.E. with no Variation worth naming thro' the whole Courfe: The Sum of their Voyage being to be drawn up thus.

1. Cape Lucas in California, from whence they took their Departure the 12 th of Yannary, lies in Lat. $23 \mathrm{~d} .30 \mathrm{~m} . \mathrm{N}$. Their Courfe was S.S.W. and S.W. for 12 days, during which time they had theWindfomething variable betweenN.W. and N.E.
2. In thele 12 days Sail they made their Southings $;$ i miles, which brought thicm into Lat. it d. 30 m .
3. They kept on the $13{ }^{\text {th }}$ dayW. half S. into Lat. $1 ;$ d. 36 m . and in this Lat. or within 20 m . of it over or under, chey held the whole Courle, and had the Wind fteddy at E.N.E. 36 whole days, and within a Point of it all the reft of the time.

By this kecping in a dired Run they certainly perform'd the Voyage in the florteft time of any that vent before them, (tho not of fome that have gone after, as we finall fectia its place) having had a frefh Gale all the way, and going away large betore it, they run gencrally fpeaking above 100 miles a day, one with another, during the wholeVoyage; for they were 59 days under Sail, and they failed 6193 miles, which is 100 milcs a day, and 293 miles over.

The conftant Trade-Winds that thus reign (as the Sailors call it) between the Tropick, bave allo this effect, that now the Voyage is, generally fpeaking, perform'd in the fame time, or ncar it, viz. in about 60 days; fo that thofe whoattempt this Run for the future, have nothing to do but to keep the lame Lat. and they'll find the fame Winds : and this may ferve for Sailing $\operatorname{Directions~in~gencral.~}$
But as we have fome Account of others, who have fteced a different Courfe, and yet have had Succels, it may not be mproper to mention it, werc it only to intimate, that if any new

## Sailing Directions for the

 Adventurers attempt farther ${ }^{-}$"overies in thele Scas, they can not fail (common Acciden... -xcepted) of performing it with Suceels, tho it be perhaps the greateft Ocean in the World.In particular it is not to be doubted, but that if the Voyage from America to India were attempted in a more northerly or more loutherly Courle, it might be perform'd, where the Winds are variable as well as here, where they blow Trade and are conftant to a Point ; with this Addtion, perhaps, equally to the Advantage of the Sailors, That tho the Run could not be made in lo thort a time, yet they would be fure to meet with inhabited Coafts and Countrics, (whether lllands or the Continent, is not material) where they would be certain to find the ordinary Refrefhments to much wanted, riz. frefh Water, Wood, Provifions or Fruits of fome kind or other.

The famous Le Maire and his Company, of whom mention has been made in the Account of the Strait called after his Name, is an Example of this paft all Contradiction; and his Journal has been publifh'd in Holland many years ago.

After he had failed round the Terra del Fuogo, and come fairly open into the Sont/, Seas, he did not (as is ufual with our Shups) Itand to the N.E. to make the Coaft of Chili and Pert, where the Spaniards, who were Enemics, would be fire to injure rather than relicve them; but keeping a Courle due $N$. (in order to get Drovifions and freth Water, which they greatly wanted, and 'frelh their Men, who were fallen ill by the Length and $\mathrm{H}_{\text {a camip }}$ of their Voyage) they made for the Intand of "fuan Fernandes in Lat. 33 d 48 m . S.

Here they were difappointed of much of that Relicf which they thould have had, by coming to an Anchor on the wrong fide of the Illand, viz. on the S. fide; and the Winds blowing conitantly and very frefh cafterly and N.E. they could not recover the Watering-place, which is on the E. fide, nor fupply themlelves with Fruits and Provifions, as they might otherwile have done, and efpecially could not venture to put their fick Men on Shore for their Relief, left they flould be blown off, and not be able to fetch it upagain to bring them away; whereas had they gone about on the W. fide behind the lfland, they had been under the Land in ftill Water, the Land being high and becalms the Road: But coming on that fide which was 0 pen to the Wind, they could never come to anchor near the Shore with their Ship, the Sea going to high on that fide.

Befides this, having fpent; days in friving to recover the Watering-place, they found that inftead of that they drove 4 Ls to Lecward beyond the Illand, notwithftanding all the Pains they took to get up again to it; fo that at laft fecing it impof: fible to be done, they gave it over.

They had fent their Boar afhore indeed to found the Depth on the other fide, had found 40 Fa . then 30 , but with good Shoaling's to 3 Fa. but being out of the Wind's way, and being unable to come to an Anchor becaule they found no bottom, they contented themelves with getting a Supply of frefh Water, and fome Fifh, and purlued their Voyage.

## ections for the Southern Ocean.

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have fearch'd farther into the Inland part, and feen what the Country yielded, and till the People by time and good ulage might have been brought to be familiar with them, they might no doubt have gotten both Water and Provifions; for they faw the Tracks of Cattle both large and fmall, and it was not to be fuppoted the Pcople lived without frelh Water: But they were impatient to look farther, and having gotten a tolerable Store of Rain Water, they weigh'd and Itecr'd away W.by N. to o. ther lllands, of which they found almolt a continued Range, almoft all the way to the Moluccas.

But not to enter into the Particulars of that long Voyage, 'tis to be obferv'd.
I. That they met with this Illand in a Run of about 900 Ls W. from Fuan Fernandes; whereas on the N. fide, Captain Rogers and others found none under full 2000 Ls, that is, till they came to Guam one of the Ladrones.
2. That after they had fail'd from this Ifland, they met with other Illands in the fame Lat. or near it, almoft at every day or two's failing, and that even all the way to the Moluccas, for they came not near the Ladrones.
3. That from hence it is very probable, had they ftood away N.W. from the firft time of their cntring into the SouthSeas, and not have gone fo far N. as the Intand of "fuait Fernandes in Lat. 33 . they would have met with other Land, either Illand or Continent, within a much Iefs Run, fo that they might have had frequent Supplics as well of Provifions as Water.

The Dutch Journal is full of the Defeription of the Pcople, their Proes or Boats, manner of Sailing, Habits, Cuftoms, Eic. which takes up a great part of the Work, but is not to our purpofe; and therefore we fhall omit all that, and only oblerve what is material, to the Sailing Part.
I. It is certain that by finding fo many Inands in their way, they fpent more time upon the Voyage, and inftead of performing the Run, as the Duke and Dutchefs did, in two Months, they were full four Months: But then on the other hand, they were not expoled to the Dangers and Extremitics which the others fuffer'd, and were like to have fuffer'd for wanr of Water and Provifions, and by Leaks and other Difafters; which, had they met with Iflands and Harbours, as the Dutch did, would have been prevented, or the Want foon fupplied: Which could not be done in the Ocean, where the Wind tho fair yer gencrally blowing hard, the Sca went high, and they were forced to pump night and day for the whole Run.
2. As to the length of the time which they fpent, it may be fuppofed to be much longer, becaufe of their being fo entirely unacquainted with the Courfe they were to fteer, and with the Pcople they were to converfe with, not to mention other Circumftances, which after one Voyage or two would have been all fo plain, that they could never have taken a Step in vain : The length of time thercfore fpent in the Voyage, is no Objection againft attempting the like for the future.
3. It is to be confider'd, that le Maire was upon an Undertaking for Difcovery rather than Commerce, and therefore
as mautucy gone about on the W. fid: behind the Illand, they had been under the Land in ftill Water, the Land being high and becalms the Road: But coming on that fide which was open to the Wiud, they could never come to anchor near the Shore with their Ship, the Sea going fo high on that fide.
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In this Diffrels, and with a Scarcity of almoft every thing, they began their Voyage for the Eaft Indics, taking their Departurc firom 'Haan Fernandes, and ftanding away W. and N.W. and fometimes W. by N. This had beca a piece of Defperation, not to be accounted for by Men of common Sente, had they not depended upon meeting with variable Winds and inlabited Countrics in their Voyage; for if they had been to make a Run of 2000 Ls, which was the leaft of the Voyage, in the Condition they were then in, the Men muft have all perifhed for want of Water, as well as Food.

Nor is it ealy for thofe Ships, which perform the Voyage in the other Latitudes within the Tropicks, to carry frefl Water, and furnilh orher Provifions in thote hot Climates, fufficient for a Run of ${ }_{3}$ Months, as was at firft the Cafe : and the $\mathcal{D}_{u k e}$ and Dutclefes found chemfelves almoft at the laft Gafp, when they firft made Land at the lllands of the Ladrones, having neither Water nor Bread for 10 days more, altho they unexpectcdly found near 3000 Weight of Bread more than they knew of in one of their Ships.
But to recurn to Le Maire and his Company : they weigh'd from Yuan Fernandes, and having but a flender Store of Provifions and le's of Water, fet fail for the Eaft Indies, flanding N.W. till they paft the fouthward Tropick, and came into the Lat. of 19 d .

In this Lat. or between 15 and 20 d . they failed from the 5 th of March to the 1 oth of April, when early in the Morning they made Land, lying N.W. and N.W. by N. from them, dift. about; Ls , which they foon underfood to be an Illand.

About Noon they got to this Ifland, and cafting their Lead with intent to come to an Anchor, they found no Ground at firtt, till rowing with their Boat abcut the Ifland, they had Ground at 25 Fa. about a fmall Musket-fhot from the Shore, where they came to an Auchor and went afhore, but to their great Difcomfort found no Water or any thing elfe for their Relicf, the People flying from them frighted and amazed. However, they were happily relieved by a heavy Rain, of which they fival feveral Buts; and had they flay'd till they might
were $n$ others ter and had thd would Which fair yc were ff fuppofe unacqu People cumftan all fo $p$ The le jection
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3. It is to be confider'd, that le Maire was upon an Undertaking for Difcovery rather than Commerce, and therefore was not to much engaged to make the beft of his way, as is the Cafe in Voyages of Trade : And this occafion'd his ranging from one Ifland to another, and from the Lat. of 18 d . S. to that of 4 or 5 d . N. Whereas Rogers and Cook kept the whole Voyage in almoft a direct Run, in the fame Lar. one Degrec over or under.

We have alfo a more modern Globe. Girdler, who has performed this Voyage in lefs time than any that ever went before him, at leaft that we have an Account of, namely, Captain Shelvock: He has lately publifh'd his Voyage round theWorld, and, if it may be depended on, performed it between the isth of Auguft and the beginning of October, which at moft is but fix Wecks.

This was certainly fuch a Run as was never heard of before, being above 6000 Miles in $42^{2}$ Days, that is, 150 Miles in 24 Hours, onc Day with another.

Both Rogers and Sbelzock, following the Steps of Sir Fra. Drake as to the Land they pointed to, made the Ladrones as the firft Land, after their Departure from Cape St. Lucas in California, tho they did not keep in the fame Latitude; whereas le Maire made the lower I!ands on the Coalt of New Guinea, fteering to Gilolo and the Moluccas, and came not near the Ladrones at all.

We have been told (and with good Authority) that the famous Magellan, of whom we have fpoken fo often, making his Voyage from the Streights called by his Name, firft made thofe Illands, and was the firft Difcoverer of them, and that he gave them their Name, viz. the Ladroues, or the Ifinds of Thieves; and that he faild from thence to the Mani!lis, as they are now called, or the Philippines. That he did to is certain, and that there he loft his Life ; but whether he was the firf that difcovered them is not fo certain : However, this feems out of queftion, viz. That he was the firft that fail'd this Voyage, and came to them this way, and mark'd out the way for thofe which came after him.

It might be for the Inftruction of thofe who may hercafter attempt this Run, if we examined the Courlic more exactly than has yet been done. by which the Manilla Ships, commonly calld Acapulco Ships, make their Return from the Port of Nanillas to Acapulco.

We are affurd that thofe Ships do not make the Ladiones in their Return, but that the Nanillas being fituated in a higher Latitude than the Ladrones, or at leaft than Guam, viz. in that of 15 to 19 d. the Manilla Ships ufually kecp to the northward, and palfing cither in that Lat. or to the northward of the Tropiek, by that means meer with a like continued Range of flands, as the 7 )utcimen under le Maire did to the fouthward of the other Tropich.

In this Courfe, tho they mect with variable Winds, and are therefore longer in their Voyage, yet they are thereby fupplied with Water and Refreflhments; and being very full of Pcople. fire the great Acapulio Ships have often 2j- to 300 on board, they have the more need of frequent Refreflments.

By this Courfe they make the Land of California higher up to the me rthware, perhaps in the Lat. of 36 to 40 d . coantury from thence to the fouthward ufually in fight of Land. This is the Reafon why the ${ }^{\text {D }}$ Iuke and Tutchefs, in their defign'd Attempt upon them, cruized wholly in fight of the Land of Califormia, in L.at. 22 to 23 d . N. knowing they were fure to find them there, if they came at all that Y ear.

This Courfe in the Return of the Acapulco Ships is farther confirmed by the following Circumftances, which indecd put it paft all doubt, viz. That when the $\mathcal{D} u k e$ and $\mathcal{T} u t c h c / s$, ha-
ving taker ners abou her in La from the The next the Manti in Lat. 40 Befides as the Wit is, N.E. the Ships Ships hon obliged to the Wind 6000 Mil but kecpi found a and Rcfr carried th and in to them to $n$ wife with poffible.

Having America only to a among t left to th

## Sailing Directions for the Iflands of the Ladrones, an of the Philippines inclufive, and thence on to the Macao in China.

 HE Inand of Gluan, tho the mofl foutherly Inand of the Ladrones, is generally the firft Land which our Ships make in the great Run from the Coaft of Amersa to the Eaff-1ndres, clpecially fuch Ships as kecp a northernCourle, that is, go to the north. watd of the Equinoxial Linc.
It is fituate in L .at. 13 d . $21 \mathrm{~m} . \mathrm{N}$. fome fay in $\mathrm{I}_{3} \mathrm{~d} .30 \mathrm{~m}$. firctchang from N. to S. about 10 to 12 LS in length, and about 6Ls in breadth. Our Navigators contend much about the Iongitude of it from the Coalt of America: The Pilots of the G) rike and '/utuchers adjufted it at 105 d .20 m . Capt. Sheleore, who made the Run in the very lame Lat. of $1_{3} \mathrm{~d}$. N. or within a fcw Minutes of it, corrects that Account, and fays it is fumething lefs than 100 d . Longit. from Cape Lucas, on the S.E. Point of Calufirnia, to the Ifland of Guam, befides their Southings from the faid Cape in I .at. 23 d . 50 m . to L at.

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## the Illands of the Ladronce.

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and are fupplicd Pcople, a board,
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This is gnd Atof Calire to find
is farther cd pur it $b c / s$, hat
ving taken one of the Acapulen Slups, examined the:r Irilio. ners about the other Ship, they fignified that they parted with her in Lat. 35 d . N. So that 'tis probable the Courte they held from the Nlanillas was gencrally beeween Lat. 35 to $40 \mathrm{~d} . \mathrm{N}$. The next is from the fame Account, where it is affirmed that the Manilla Ships gencrally make the Coaft of Calliforma firt in lat. 40 d. N .

Befides, the Nature of the thing tells us it mult be fo. For as the Winds between the Tropicks blow always one way, that is, N.E. and E.N.E. withour which it would be mpofible for the Ships to make the Voyage weftward as they do; fo the Ships homeward bound from the Manillias to Acaputio are obliged to kecp to the northward, by the mere Necefity of the Winds, it bein! abfolutely impracticable to make a Rum of 6000 Miles all the way in the Wind's Eye, as it may be call'd; but keeping to the N. and without the Tropicks, as they found a Frequency of Land, that Is, of Mlands, for Relicf and Refrelhments, fo they alfo found varable Winds, which carried them from Place to Place, tho not with tuch Steadincts and in to little time, yet with Certainty tufficient to cnable them to make the Voyage in a reafonable time, which otherwife with the cafterly Trade-Winds would be utterly inpolitible.

Having thus accounted for the Length of the Run from America over the valt Soutbern Ocean weftward. we have only to add what is proper for Directions to the Saling at and among the Spaniards lilands of Afia, whofe Delcipiption was left to this place in our former Accounts.

## $e$ Ladrones, and from thence northward to the llands thence on to the Ifland of Formofa, and to the City of

ly inand dd which Coaft of ech Ships he north.
d. $3 \circ \mathrm{~m}$. and about ibout the ors of the apt. Sbeld. N. or and fays cucas, on 2, befides a. to I.at.

You ride liere in 15 to 20 Fa. under the Lece of foum Rocks, which lie on the N . fide of the Road, and make it the more cafy, and fecure in cafe of a N.E. Wurd. The chief Port of the Place is called "̈matta, or "Otatta, having a high round Hill juft before it, which makes a little lafe Harbour within it for fimall Veffels: but the Ground is to good in the Road, and you are fo well flecter'd, that there is no ned of a better Harbour.

The Road at "Omatta lies about a mile off Shore, the ciround a good holding Sand, and the Wind always blowing off Shore: there are no Fortifications, only a trong Houte like a Cattle for the $S p a n i / h$ Governor, to fecure him from any Inliurrection of the Natives.

The Produce of the Ifland is not our bufinefs here; it is enough to tell the Englifh Sailor for his Encouragement, that here is plenty of Provifions, which after fo long a Run he would be very glad of, fuch as Rice, Indian Corn, Carte.


HE Illand of Guam, tho the mofl foutherly Ifland of the Ladrones, is gencrally the firft Land which our Ships make in the great Run from the Coalt of Anerica to the Eaft-Indies, efpecially fuch Ships askeep a northern Courle, that is, go to the northWard of the Equnoxial Line.

It is fituate in I.at. 13 d .21 m . N. fome fay in 13 d .30 m . fleteching from N . to S . about 10 to $1_{2} \mathrm{Ls}$ in length, and about 6 Ls in breadth. Our Navigators contend much about the Longitude of it from the Coalt of America: The Pilots of the 'Initic and Yutchers adjulted it at 105 d. 20 m . Capt. Shelwock, who made the Run in the very lame Lat. of $1 ; \mathrm{d}$. N. or within a few Minutes of it, corrects that Account, and lays it is tomething lefs than 100 d . Longit. from Cape Lacas, on the S.E. Point of Califiomia, to the Inland of Guam, befides their Southings from the fard Cape in Lat. 23 d .50 m . to Lat. 1j. in Which they perform'd the Run.
$\therefore$ ․ B. Others lay Cape Lucas is in 23 d .30 m .
The S.W. part of Guam is high and moumtainous ; but the N.E. Which was the fide our European Sailors may be luppoted to make firf, tho it was fartheft from them, is low. When the ' Dike' and 7 )atchefs firft made the Inland, they tell us it bore from them W.N.W. dift. in Ls; which could not well be the low pat of the Inand: And the next Morning they obferv'd that the S. part of the Illand bore from them W. by S. By which we may take it for granted, that the low part, which was the N.E. Point, was not to be feen at luch a diftance.

When therefore you firlt make Land here, you ought to look well out ; for if it be the fartheft part of the Ifland you fec firlt, youmay be a-ground upon the neareft part before you fee it. efpecially if it fhould bc in the night. It is fruitful, and well furnilh'd to fupply a Ship or two with all Neceffarics after folong a Run; but if there fhould be many Ships together, the Place might be exhaufted.

There is another Inand, which lying more cafterly is gencrally made frift in this Run, and is call'd Sarpana; it Jies about 8 Ls to the caftward of Gutam, but has neither a Harbour fit for great Ships to ride in, nor is able to furnifh the Supplics ufually wauted, as Guan is; for which reafon our Ships rarely take any notice of it, except to guide them to C \% \% 12.

The Road is on the W. fide of the Inand, in a large Bay made by the Land bending out weftward both at the N. and S. Fuds of it, and render'd fecure riding by a long Ridge of Shoals lying out into the Sca from the S.W. Point of the Illand to the W.S.W.

Thele Shoals break off the Sea from the S.E. and keep off a S.E Wind allo, as the Ifland it felf docs an E. Wind; and a hittle Ihand, call'd the Caper Ifland, becaufe it is overgrown with Capers, docs the Wind from the N. and N.E. In a word, this Bay or Harbour is only open to the W. and N.W. Wind, which hardly blows here a Weck in feven lears.
thacrly 1 land Land which the Coalt of ly fuch Ships to the north.

13 d .30 m. $h$, andabout in about the Pilots of the Capr. Shel${ }_{1} \mathrm{~d}$ d. N. or mit, and fays pe Lacas, on uam, befides om. to Lat.
n.
ous ; but the be fuppoted low. When tell us ir bore twell be the they obferv'd W. by S. By $v$ part, which diftance.
jou ought to ie Ifland you art before you It is fruifful, all Neceffarics y Ships toge-
tarly is genc$a$; it lies acicher a Harto furnifh the ch reation our uide them to

1 a large Bay the N . and S . ong Ridge of at of the illand
and kcep off a Wind ; and a is ovcrgrown E. In a word, Id.W. Wind,

You ride here in 1 ; to 20 Fa, under the Lee of lome Rocks, which lic on the N . fide of the Road, and make it the more caly, and ficure in calc of a N.E. Wind. The chief Port of the Place is called "Omatta, or Otatta, having a high romad Hill juft before it, which makes a little fafe Harbour within it for finall Veffels: but the Ground is fo good in the Road, and you are fio well thelter'd, that there is no need of a beter Harbour.

The Road at "Omatta lics about a mile off Shore, the ciround a good holding Sand, and the Wind always blowing off Shore: there are no Fortifications, only a ftrong Houte like a Cattle for the $S p a n i / h$ Governor, to lecure him from any Infurrection of the Natives.

The Produce of the Ifland is not our bufinefs here; it is enough to tell the Eingli/b Sailor for his Encourayement, that here is plenty of Provifions, which atter fo long a Run he would be very glad of, fuch as Rice, Indian Corn, Cattle, and Fowls of almoft all forts, frell Water, モひc.

From this Ifland the Courfe of the Europeaus feems always to lic onc of the threc ways fcllowing.

1. Some make their Courfe from hence S.W. and S.W. by S. taking their way among the innumerable Iflands of thote seas towards Batavia, or at Icalt towards the great Inand of Rorneo, that fo they may the more readily pals the Straits of Sumda, and open with the great Indian Occan, and fo forward for the Cape of Good Hope. This was the way the Tukee and 'Dutclef/s ftecred, and this way the famous Sur Francis Trate went before them, as moft of thote Europeans who make this grand Tour round the Globe do ftill.
N. B. From this Inand to the Moluccar, or Dutcl, Spice Ifands, is about 400 Ls.
2. Orhers having made this Ifland firft, go away N.W. or W. by N. ftecring for the Pl/bilippines, that is, for Laconia, the northermoft of them, in which is the City and Porr of Mambla. This likewile is between 3 and 400 ls; and this is the Courfe which the Spaniards take when they come from Acapulco (for they are all bound to the Manillas, and no where elfe) back again to Ne $\sim$ Spain.
3. The third kind are fich Ships as coming from the E. that is from America, and being bound for Europe, chufe to avoid the Iflands above mention'd, which are indecd very perplexing and hazardous, (and where Sir Prancis 'Drake' and others have been in danger of being loft) and ftecring away due $\mathbf{N}$. from the Ladiones to the height of 24 or 25 d . N. Lat. fland then to the W. for the Ifland of Formofa, and from thence to the Coaft of Cbina, fo to fall in with the Eugli/l/ Ships, which trading on the Coaft are gencrally to be mee with at Amoy, or at Cianton; and fo come forward in Company with them into liurope. This is the Courfe which Captain Shelvock took after his long Run over the great Soutl) Seas to the Ifland of Citum; inftead of going S.W. to Batavia, he flaid very litele ar Citum, but fiecring northward made no more Land, or ar leatt flope at none, till he came to Lormofia; from whene he ftecr'd S.W. to Mis-

## Sailing Directions for the Illa

cao, and the City of Canton in Cbina, of which Ports we have given fufficient Deferiptions in their place.

It was needful however to mention this Run, as a Direction to thofe who may have this Courfe in their View hereafter. I return to the fecond, which is the Courfe of the Spaniards, and Ieads us to the Philippine Ifands, which, with the other Illands on the Weft of America, are the only parts of the World left to feeak of.
The principal Port is the City and Harbour of Manilla; the Paflage to it from thefe Scas is thro'a Strait or Vare, called the Sirezybt of Manilla, lying between the Illand of Luconia to the N . and the Illand $\mathcal{P}$ bilippina to the S . The Paflage lics E. andW. or rather S.E. and N.W. and needs no Pilotage, the Strait being, for the moft part, $3_{3}$ to ${ }_{4}$ Ls broad, and 30 to 50 Fa. deep.
The River which makes the Port of Manilla is very large, compared to the bignefs of the Inand; it iffues out of a Lake

## Sailing Directions for the Inlands on the Coaft



Aving thusgiven the gencral Defrription of the Coaft, and Dircctions for the Navigation from the Straits of Magellan in Lat. 52 d . S. to the Bottom of the Gulph of Califorsia in Lat. 40 d . N. being the longeft contiguous Coaft in the known World, and all under the Dominion of onc Prince, to wir, the King of Spain; it remains to inquire, 1 . What confiderable navigable Rivers are to be found on all this long Coaft, in which the Sailors might fland in necd of Directions, cither to make the Entrance or to fail up, as is ufual in the great Rivers in other Parts of the World? And, $z$. What Iflands of Note are to be neet with in this great Soutbern Ocean, whofe Coafts fhould be deffribed for the Benefit of our Sailors?
It will be fomething furprizing to thofe who have not enquired into the Cafe, when 1 fhail oblerve to them, on the firft of thefe Heads, that altho this Coaft of America is of fo vaft a length, being one continucd Continent of near 2000 Ls, yet that there is not one navigable River worth naming upon the whole Coaft ; in flort, not one River equal for Navigation to the little half River, for 'tis no more, by which we fail up from Harwich to $I p \rho \mathrm{sicich}^{2}$, which carries Ships about 12 mile : nor indeed do $I$ know one that has fo fair a Channel for great Ships as that to $I p$ feich has: fo that in all this vaftly extended Country of America, which on the other fide of it, (viz. in the Atlantic Ocean) has the greatef Rivers in the World, which open with Mouths of 30 to 40 Ls broad, and carry fuch a Flux of Water with them as to make the very Ocean frefh for feveral Ls, fuch as the Rio 'Plata, Rio Amazones, Rio Oroonoko, Mifilfippi, Canada, Cbefapcak, छुc. yet on this fide it is to entirely void of great Rivers, that we do not meet with oue worth the Name of a navigable River, or that can carry a Ship of Burden 6 Ls within the Land: thofe of Baldiwia and Gulyaquil are moft confiderable, and they are fearce worth naming. This being the Cafe, we have no Account of

## as for the Iflands in the South Seas.

h Ports we have
a, as a Direction ew hereafter. I c Spaniards, and the other Illands of the World left

## of Manilla; the

 : Varc, called the of Luconia to the Tage lies E andW. , the Strait being, OFa. deep.illa is very large, es out of a Lake
called Babi, which falls into the Sea at Cavito, a fmall but well fortify'd Town, which is the Port for great Ships to Manilla, and where the Veffels of Burden lie.

There are Pilots to be had here for the Port it felf, for the Streight alfo, and for all the reft of the Iflands. Befides there is a very good Haven, able to receive 500 Sail of four Ships.

There are no Harbours of Confequence in any of the reft of the Pbilippine Iflands: the Illand of Mindanao, which is the larget, has no confiderable Port: The Trade-Winds blow here after the manner of the Monfoons; wefterly winds blow from May to September, and in $7 u l y$ and Augujt bring great Rains and Floods; from October to April the cafterly Winds blow and bring in good Weather. Here end the Spanif/b Dominions in the Eaff Indies, which concludes our Sailing Directions for $N e w$ Spain alfo.

## Is on the Coaft of America, on the fide of the South-Seas.

otion of the Coaft, from the Straits of ttom of the Gulph ng the longeft conId, and all under Ig of Spain ; it revigable Rivers are the Sailors might the Entrance or to ther Parts of the to be met with in ild be defcribed for

## who have not en-

 them, on the firft nerica is of fo valt near 2000 Ls. yet naming upon the for Navigation to which we fail up ps about 12 mile : Channel for great his vaftly extender fide of it, (viz. ers in the World, broad, and carry te the very Ocean io Amazones, Rio E̛c. yet on this lat we do not meet River, or that can 1 : thofe of Baldiad they are fearce ave no Account ofI muft omit in my Accoint of Illands, thofe fmall Illands which lie as it were under Shore, or within the Bays and Gulphs near the Main, and which it was neceffary to fpeak of in directing your failing along thore; like as 1 have done in the Defcription of other Coafts, and which 1 have accounted for more than once in orher Parts of this Work: Nor was it practicable for me to direct the Sailor in his courfe along the Shore of Cbili, 'Perit, Panama, Mexico, \&c. and not mention thofe Inands which he mult of neceffity touch at, and fee under his Bow as he went on, fuch as Cbiloa, Mocha, PPuna, Callao, Gorgona, the Pearl Iflands, and others.

But for Iflands lying off at a diftance in the Ocean, and Inands of Confideration, we fee none but Fuan Fernandes, and the Gallegos or Gallepagos, between the Terra del Fuojo, and Cape Lucas on the S. End of Califormia.

As to the Terra del Fuogo, that is an Illand no queftion ; and we have given Accounts of teveral Voyages made round it : Nay, it may be accounted two Iflands, if we allow the Account of the Streight of S't. Barb, or Barbara, difcover'd by the French in the Tartan of Mlarfeilles. 'Tis true, we find no diftinct Name given to that part of the Inand, which the Streight, or Paffage, parts off to the W. of the other : But we may for the prelent call it the leffer Land of Terra del Fuogo, as the eaftmoft part is by much the larger every way, and efpecially S. for Cape Horn, which is in the large part, lies in Lat. 57 d. 20 m . or thereabouts; whereas Cape Noire, which is the moft foutherly of the weftern part, or leffer Illand, lies in Lat: 54 d. I muft again add here, Sor the Direftion of all who may have Occafion hereaftet to fail into the Soutb-Seas, That it feems of the utmoft Importance to fuch a Voyage, to make a full Difcovery of this Paffage, which, if it be as the French have deffrib'd it, is made much fafer and fhorter than was ever known before, and no Ships for the future need be above ${ }_{12}$ Days in going thro' from Sea to Sea,
a length, being one continued Continent of near 2000 Ls, yet that there is not one navigable River worth naming upon the whole Coaft ; in fhort, not one River equal for Navigation to the little half River, for 'tis no more, by which we fail up from Harwich to I $p$ fwich, which carries Ships about 12 mile : nor indeed do I know one that has fo fair a Channel for great Ships as that to Ipferich has: fo that in all this vaftly extended Country of America, which on the other fide of it, (viz. in the Atlantic Ocean) has the greateft Rivers in the World, which open with Mouths of 30 to 40 ls broad, and carry fuch a Flux of Water with them as to make the very Ocean frefh for feveral Ls, fuch as the Rio Plata, Rio Amazones, Rio Oroonoko, Mijfifippi, Canada, Chefapeak, छoc. yet on this fide it is to entirely void of great Rivers, that we do not meet with one worth the Name of a navigable River, or that can carry a Ship of Burden 6 Ls within the Land : thofe of Baldivia and Gilyaquil are moft confiderable, and they are ficarce worth naming. This being the Cafe, we have no Account of River-Navigation to trouble our Readers with.

I mult take notice indeed, that fome of our French and Spa$n i / h$ Difcoverers have given us the Names of feveral great Rivers, which they tell us they found in the N.W. Part of $A$ merica, even beyond their Louifiana, and the Sources of the Mifijlippi, whole Streams ran weftiward, and confequently mult fall into fome part of what we call the South Seas, or rather fo far $\mathbf{N}$. as to empty themfelves into the Chinefe or 7apanefe Ocean. We can not indeed fay pofitively, that no fuch Rivers are, or have been found; but this may be faid on good Grounds, that no fuch Sea has been found out, nor any fuch Coaft difcover'd where the Mouths or Openings of any fuch Rivers are to be feen: and therefore we may venture to fay, that the World as yet knows nothing of it, and confequently no Account can be expected of it.

Some modern Geographers fay, tho without Authority, that the Spaniards after many unfuccelsful Attempts did at laft find a Paffage thro' the Sca of California; and in their Maps they call this the Nortbern Streight of California, which they block up with an Illand, leaving a Channel on cither fide, all alike imaginary: for we can not hear of any that have been able to find that Opening, or to pafs that way after them.

I come in the next Place therefore to fipeak of the Iflands of America, on this fide. And here 1 muft obferve, that if it is wonderful that there are fo few Rivers of any length, and that are navigable for Ships of Burden, on fo long a Coaft as almoft for 2000 Ls ; fo'tis no lefs wonderful, that in all this Eaftern Part of the great Southorn Ocean, there are hardly any Illands of note, even for above 1500 Ls fquare; that is to lay, take the Soutbern Oceant at a Medium, and fix the Center of your Meafurement at 700 Ls from the Main, and in the Lat. of 34 d . S. and you have not any Illand worth naming for 2000 Miles every way, E. W. N. or S. and perhaps take it E. and W. for 300 Ls more.
near 2000 Ls, yet naming upon the for Navigation to which we fail up ips about 12 mile: Channel for great :his vaftly extender fide of it, (viz. ers in the World, broad, and carry e the very Ocean io Amazones, Rio Ejc. yet on this lat we do not meet River, or that can 1: thofe of Baldiod they are fearce ave no Account of。 ur French and Spa$f$ feveral great Rie N.W. Part of $A$ he Sources of the and confequently South Seas, or rae Chinefe or Japavely, that no fuch y be faid on good out, nor any tuch nings of any fuch ay venture to fay, , and confequently
out Authority, that pts did at laft find n their Maps they , which they block ther fide, all alike have been able to them.
:ak of the Iflands oblerve, that if it $f$ any length, and fo long a Coaft as inl, that in all this there are hardly Ls fquare; that is Jium, and fix the 1 the Main, and in and worth naming and perhaps take
 and we have given Accounts of leveral Voyages made round it : Nay, it may be accounted two Iflands, if we allow the Account of the Streight of St. Barb, or Barbara, difcover'd by the French in the Tartan of Marfeilles. 'Tis true, we find no diftinct Name given to that part of the Inand, which the Streight, or Paffage, paits off to the W. of the other : But we may for the prelent cill it the leffer Land of Terra del Fuogo, as the eaftmioft part is by much the larger every way, and efpecially S. for Cape Horn, which is in the large part, lies in Lat. 57 d .20 m . or thereabouts ; whereas Cape Noire, which is the moft foutherly of the weftern part, or Ieffer Inand, lics in Lat: 54 d. I muft again add here, for the Direction of all who may have Occafion hereaftet to fail into the South-Seas, That it feems of the utmoft Importance to fuch a Voyage, to make a full Difcovery of this Paffage, which, if it be as the French have defcrib'd it, is made much fafer and fhorter than was ever known before, and no Ships for the future need be above 12 Days in going thro' from Sea to Sea, which they may do with infinite eafe and fafety, compared to the other Paffages, either that round Cape Horn, or that thro' the reft of the Strcight of Magellan; for the moft dangerous as well as difficult part of the Magellanic Streight is beyond that parting of the Channel, and to the weftward, being all that part which in Sir fobn Narborough's Account is call'd Crooked Reach and Long Reach, the one being embarafs'd with Rocks and Inands, and the other, tho clear in the Fair Way, having no Bottom even from Shore to Shore; fo that if you come to have a Storm upon a Leeward Tide, there's to Harbour to put inat, nor any Anchor-hold to ride in ; but you muft run back for Shelter among thofe difficult Places, which you thought you had efcaped, and if the Wind be fhort, or blows thwart, and there ftands any Head-land in your way which you cannot weather, you go a-fhore inevitably among the Rocks ; whereas in this Paffage you have Sea-room in the Channel it felf, a fhort Run to go thro', good Soundings, with gradual Shoalings to both Shores, and very good Roads, Harbours, and Side-Channels like Sounds running into the Land, or among the Iflands, where you may ride fhelter'd from any Winds. $N . B$. You are out in the open Soutl)-Sca in lefs than 10 Hours fail, tho with but a moderate Gale of Wind.

This I fpeak concerning this leffer Illand, becaufe I think 'tis of the laft importance to Navigators on this difficult Voyage, and as it really belongs to the prelent Part : As this latter part of the Terra del Fuogo is an Inland by it felf, which it was never taken to be betore. We have no Survey of the outer Coaft of it, not can we yet tell what Ports or Harbours may be in it; no Ships that I have heard of, having put in, or been driven in there : Our Charts deferibe it full of Harbours, Iflands, Creeks, and Coves; but with what Authority we yet know not : All we can fay is, That from the Opening of this Paflage by Cape Noirc the Coaft of the Illand trends N. W. and * C c c
N.W. Iflands of note in all the Run to the northward, till we come to 7uan Fermatides in Lat. 3 d. +5 m .

At the S.E. End of this Itland is a large facious Bay, where you may anchor in very yood Ground, and in II to 12 Fa . Water : it is very good Riding here in the Sealon, when the Winds hang northerly and between the N. and N.E. but this Bay lies open to the S. and S.W. Winds, which blow at the Scations of thofe Winds sery hard.

Thele Inands are two, I mean the laigen of them, for there are other Rocks which fome call Inands alfo: The biggeft of the two is that which we properly call 7 fan Fernandes, about 3 I.s in Icngth, fretching neareft N.W. and S.E. Dampier fays it is 12 Ls in carcurt, and that both the Bays are at the E. end. Which aceording to all others cannot be true: He alfo places the Itland in Lat. $3+\mathrm{d} .15 \mathrm{~m}$. S. whereas others place it in $3:$ d. 45 m . as abore; the Difference we mult leave to Experiment.

In the Bay mentioned above, which is at the S.E. end of the Illand, there goes fo great a Sca with a foutherly Wind, that the Boats dare not venture to land: The beft of the Road is about a Furlong from the Shore; but if the foutherly Winds blow hard, as well Ships as Boats mult put out to Sca, for the Sca comes tumbling in to high, that no Ship can ride it.

In good Weather with the Winds off Shore 'tis a very good Road, but you muft fight your way thro' before you can land; for the Seals lie fo thick upon the Shore, that you mult kill tome hundreds of them before you can fo much as fet your Foot on Shore.

On the N.E. fide of the Ifland is another Bay, where you may ride under Shelter from the foutherly Winds, as you do in the other Bay from the N. and N.W. In this Bay you have I. Fa. Water about a quarter of a Mile from the Shore, and Sood riding: Allo here you may cut Wood with great Convemence. Some Pcople are loth to go into cither of thele Lays, and chule to ride a $L$ off the Shore; but they are ob!:g'd to lee with two Cables an cud in 25 to 30 Fa . and are often foreed to nip their Cables and put out to Sca, and fometimes are curried to tar to the Leeward of the Iflands, that they cannot fetch it up again, as was the Cale of Cornelius Schouten and le Mure, who made the Illand, but fell a little to Leeward : And tho they were in great diftrefs for frefl Provifions, and particularly tor frefl Water, and had a vaft Run to make, even no leis than crois the whole Southern Ocean, and that many of their Men were fick; yet they could not fetch it up, but were obliged to leave it, and feek their Fortune to the weftward, as is deferrb'd in its place.

Here are no lohabitants except Goats and Seals; but they are io numerous. that Mr. Dampier tells us a finglc fimall Boat's Crew kill'd 600 Goats in one Day's Hunting. This plenty of Flefh dis is th bewcen Thele If Rocks; The beft Number fides the bited ; a from the Charts I to $18, \mathrm{~W}$ cnough 1 Iflands, broad; t $1+$ or 15 long, and

The el pran Sliup Turtle : plenty, t digious; and tome are a ver time who

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## ions for the Country of California.

the W. The next Inand or Inands N. or N.N.W. from \%/wan Fernandes is the Gallipagoe's, nor is there any Illand in all the Run between ywan Fermandes andthele, tho it is no lets than 670 Ls. Thele Illands of Gallepagors are a Clufter of limall Illands and Rocks; their Number feems not to be adjufted by any Writers: The beft and moft exact Account of them is, That they are a Number of large Iflands lying directly under and clote ou both fides the Line : they are like thole of the Fermandes uninhabited; and the neareft of them to the Eaftward is 110 Ls dift. from the Shore of America, as they are placed in moft of the Charts I have met with. They lie in Longitude from 176 d . to $18, \mathrm{~W}$. tho according to 'Dampier they are not placed far enough W. thofe of the weftermoft Situation are the largeft Illands, and fome of them are 9 or 10 Ls long, and 6 or 7 broad; the reft are finaller. Dampier rells us he reckon'd up it or 15 of them, which were generally from 7 to 10 Ls long, and 3 to $S$ Ls broad.

The chict things for which they are frequented by E:uropean Ships are threc, viz. Wood, freth Water, and Tortoile or Turtle : 'The 2 former are to be had good, but the latter is in lich plenty, that their Number is innumerable, as their Size is prodigious; for here they find them of 150 to 200 Pound weight, and lometimes near a Bulhel of Eggs in one of them, which are a very great Relief to Scamen, afecr having fubfifted a long time wholly upon falt Provifions.

It is proper to oblerve here, That you fhould never come to thefe Inands of the Gallepagoes in the three Winter-Mouths of Noveuber, December and fanuary; for that being the rainy Scafon, they have alfo almoft continual Tempelts of Wind, Rain, Lightning and Thunder: Moft of the reft of the Year they have moderate Weather and a fmooth Sca.

Tampier rells us he anchored on the E. fide of one of the caltmoft of thofe Mlands, and found 16 Fa. Water, clear white hard Sand, and well fheltred: And Davis, another European Commander, came to an Anchor on the W. fide of the Gallepagoes, where he allo found good Riding in 22 Fa and again, Dampier anchored at the N. end of the fecond lllaud, in Lat. o deg. 28 m . $N$. from the Line.

Thele Iflands of the Galleparoes lie very convenient for any Ships to fail by, who keep off in the main Sca, not caring to be difcovered from the Coalt, as is generally the Cale of our European Cruizers when they come into thefe Seas: And as shere is good Harbour, Wood and Warer, befides the Refrethment of Tortoife, and a vaft Mulitude of Fowls, they often lie here to careen and repair their Ships; but as the Situation is under the Line, the Heats are exceilive great.

Alfo for thote Ships that would cruite upon the Spaniards of Panama, or of Lima, thele Iflands are of great ufe, as well te retreat to with any Prizes atter they have taken them, as to rendezvous at, after any calual Separation.

There are feveral convenient Places to ride in upon the Coaft of thefe Inlands, but no Bays or Inlets where a Ship may run in, nor any Rivers excent fimall Brooks; yct the Water is very

Lave, and hime to ride a $L$ offthe Shore; but they are oblig'd to he winh wo Cables an end in 25 to 30 Fa . and are otien forced to llip their Cables and put out to Sca, and fometimes are cirrical fo far to the Leeward of the Illands, that they cannot terch it upagain, as was the Cale of Cornelius Schouten and be Uliari, who made the Illand, but fell a little to Leeward: And tho they were in great diftels for freth Provifions, and partieshatly tor frelh Water, and had a valt k!:a 1 , make, even no lets than crols the whole Soutberu Ocean, and that many of their Men were fick; yet they could not ferch it up, butwere obliged to leave it, and leck their Fortunc to the weftward, as is delcrib'd in its place.

Here are no Inhabirants except Goats and Scals; but they are fo numerous, that Mr. Dampier tells us a fiogle fmall Boat's Crew kill'd 600 Goats iu one Day's Hunting. This plenty of Flefh and frell Water caufes almolt all the European Ships to anchor here. elpecially becaute there is no other Place where ihey can come frecly on Shore, all they can get on the Main being by Force or Stcalth.

There is allo a great Quantity of Scals and Fifh, among which, according to Roger's and Cook they have Craw. filh as laree as Lobtters. Our Eiuropean Ships apply themfelves to take Filh here as well as Flelh, which they talt and kecp as lon's as they can, to eck out the Stores of Flelh.

This is the Illand where Rogers and Cook found a Scotch Man named Alexander Selkirk, who had lived four Years alone, and maintained himfelf by Filhing and killing of Goats.
$\lambda^{\prime} . B$. This Inand lies duc W. from the Main of America, dift. 95 Ls ; Dampier lays 120 Ls.
in l.at. 0 Theld Ships to be difico Europica there is ment of lie here is under

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## Sailing Direations for the Country of California, fr of the Ifland, to Lat. 40 d . North, on the $W$ eft a



N the E. fide of California is a very deep Gulph or Sca, call it which you will, for it is not yet perfectly difcovered, nor is it cxactly furvey'd even fo far as it is difcovered. We read of no European that ever made any Attempt this way: Sir Fra. 'Drake indeed liil'd up the W. fide; and it feems as if he did that ignorantly, expecting to have paffed round the Land of Califfornia towards the Sca of C'bima, not having the leaft View of making Experiments or Difooveries for After-ages: Haid thas becn his Bufinefs, he would at Ieaft have fearch'd the Shores, and got fome Knowledge by the Inhabitants how far the Sea contmued to go; nor would he have been difcouraged ly any Cold which could be poflible in the Lat. of 43 d . atid no more, for that it feems was the fartheft he went N .

Befide was in, Voyage. Trealure Spaniara have inte Sir $F$ tance of Men difc return, a fide of tl where ho feffion o call'd it
coblig'd ure often metimes hey can. utcn and ceward : ons, and ke, even many of but were ceftward,
but they all Boat's y of Flefh o anchor they can bcing by
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orcl) Man rs alonc, s. America, in $\mathrm{L} . \mathrm{at} . \mathrm{o} \mathrm{deg}, 28 \mathrm{~m}$. N. from the Linc.

Thete Iflands of the Gallepagoes lie very convenient for any Ships to lail by, who keep off in the main Sca, not caring to be difcovered from the Coalt, as is generally the Cate of our Eirropean Cruizers when they come into thefe Scas: And as there is good Harbour, Wood and Water, befides the Reffechment of Tortoife, and a van Mulitude of Fowls, they often lie here to careen and repair their Ships; but as the Situation is under the Line, the Hears are excelifive great.

Alfo for thofe Ships that would cruite upon the Spaniards of Panama, or of Lima, thefe Iflands are of great ute, as well to retreat to with any Prizes atter they have taken them, as to rendezvous at, after any cafual Separation.

There are feveral convenient Places to ride in upon the Coaft of thefe Iflands, but no Bays or Iulcts where a Ship may run in, wor any Rivers except fmall Brooks ; yet the Water is very fiweer and good. There are many flrange Currents amoug them, occafion'd, as we fuppofe, by large Rocks, which may lic decp under Water: Thele Currents gencrally fet to Lecward, except on the Full Moon ; and then it has been oblerved they will run as ftrong to windward, and fome think they do the fame at every New Moon, that is, at the Top of the Spring. Tides.

From thefe Inands we fee none worth naming, except the Pearl IJands in the Bay of 'Panama, the Ifland Gorgona, and others, of which I have fipoken in their places, and which are excepted out of this Account ; except thefe, I lay, there are none till we come to California, which, as I laid above, I thall tipeak of as an Inland, without pretending to determine whether it be to or no.

## California, from Lat. 38 d. North on the Eaft fule on the Weft and North-Weft Coaft of it inclufive.

p Gulph yet per'd cven European Sir Fra. he did Land of the leaft cr-ages: fearch'd nts how ${ }^{1}$ difcouof 43 d .

Befides, it is cvident from the Circumftances Sir Fra. Trake was in, that his ranging thole Scas was an Accident to his Voyage, it not being his Bufinefs, who had fuch a Charge of Trealure on board, to fuffer himelelf to be embay d, where the Spaniards, if they had known where he was, might with cale have intcrcepted him in his Return.

Sir Francis thercfore, knowing nothing of the great importance of the Difcovery, finding an Extrenity of Cold, and his Men difcontented at the Hardihips they bore, was obliged to return, and put into a Port or Bay, which he found on the W. fide of the lland or the Main of California, and in Lat. 3 S d. where he refrefl'd his Pcople, got Wood and Watcr, rook Polfeffion of the Country in the Name of Queen Elizabeth, call'd it New Albion ; and having got what Provifions the

## Sailing Directions for the Cou

would afford, came away to the fowthward, coafting the fame fide of California, or New Albion, to Cape St. Lucas.

Between that Bay where Sir Fra. Drake winter'd, and Cape St. Lucas, the Shore is full of Bays, and good Roads or An. choring-places, but no Towns or Cities, as there are on the E. fide of the Gulph; the Inhabitants being Savages, and for the moft part living far within the Land, and not having fo much as a Canoc to go off to Scain, tho they filh very diligently for the Supply of their Food.

Ciope Lucas lies N.W. from Cape Corientes, this latter being on the Coalt of New Mexico in Lat. 20 d. 29 m . The Manilla Ships in their Return from the Pbilippines having coafted the W. Shore of California to Cape St. Lucas, ftretch over from hence S.E. by E. till they make Cape Corientes, and then go away S. and S. by E. to Acapulio: the Mouth of the Gulph or Entrance of the Sca of California mult be here near 8o Ls over; but as there are fome Illands lie off of the Shore on both fides; when you are farther $N$. fo the Gulph narrows to about 40 Ls. Thote of the Iflands on the Spanifb fide are called the lllands of Chametly, being 6 in number, and lying juft oppofite to Cape Lucas, duc E. from the faid Cape, being in the tame Lat. viz. 23 d . 11 m . almoft under the Tropick: alfo the llands de tres Marias lie in the Offing, about the middle be. tween both Shores.

Captain Dampier calls this Gulph the Lake of California, tho I think improperly : He fays indeed, that it is properly a Channel or part of the Sea between the Inand, that is, between Califurnia, and the Continent. He adds, that it either is not much known by the Spaniard, or is conceal'd by them, for fear the European Cruizers thould find out the way to the Mines of Mexico. But I think the firft is the real truth, viz. that the Spaniards know little or nothing of the Gulph, efpecially on the Californian fide: and as for the Privatecrs and Nmes of Mexico, 'tis evident our Cruizers have often failed up that fide of the Main in order to attack them; but as they lie far within the Land, and that the Spaniards have generally a good Number of Troops to defend them, moft of the taid Cruizers have given over the Search, and thofe that have attempred it have milcarry'd.

From the Place where Sir Francis Drake careen'd, which lies in Lat. 38 , on the W. fide as above, the Shore of Califormia iies N.E. by E. if Sir Francis Drake's Account is to be depended upon: he meafur'd from Guatulco to the northward 8oo Ls ; but, as that is from Lat. 15 d .30 m. to 43 d . only, it is not fo far by 240 Ls. So that it muft be fuppos'd they might make out the reft by frequent coafting the Baysand Bights, in fearch of fome Outlet, which however they could not find, but found the Land on the faid W. fide all low and plain, without any Rivers or Harbours, till they came to the Lat. of 38 .

It is our unhappincfs, that Sir Francis Drake's Account of this Coaft is rather fill'd with a Relation of the People, the Reception he met with among them, the long Story of their Kug, and of his taking his Surrender of the Country to Queen Elizabetl, and doing homage to her, than with any Deficrip-

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which Califor. o be derthward d. only, s'd they dights, not find, a, withof 38 . count of the Re. of their , Qucen Dcicrip-
' Is broad, with 2 Illands in the Paffage, about 4 Ls. diftant
' from one another.

- Here we difcerned from the Top-head, that there run a - Channel or Gut of Water a-crofs the flat Country on our ' Larboard fide, which extended W. and W. by N. as far as - we could difeern any thing ; which Streight or Channel might - part the Illand of California from the Continent : but it did - not feem to be navigable, neither cculd we find any Open' ing to go into it, otherwife we fhould probably have gone - in with our Boat.
- The Strcight which we cnter'd was fair, and clean from ' Rocks, but very decp Water. We paft between the two - Illands, where we founded, but found no Bottom. We - were no fooner thro' this Streight, but we came into an open
- Sea; and failed ftlll norchward, fuppofing we were got into
; the great northern Ocean. But having lailed about 15 Ls ,
' we deferied at a great dift. N. a high mountainous Land, run-
' ning crofs the whole breadth of the Sea, and joining, as we
' thought, both the Shores; fo that to our grear Difap.
' pointment we found we were embay'd, and enclofed with
: Land on all fides, except the Streight between the 2 Illands,〔 where we camc in.
' But while we narrowly obferv'd the Coaft which lay thus
- betore us, we perceived as we thought an Opening to the
- N.W. being on the fame Shore of Santa C'riz ${ }^{\circ}$, or the Land
' of California; and being defirous to fearch it to the utmoft,
- we alter'd our Courfe to the W. and W.N.W. and ftood in
' near the Shore, running along by the Land N.W. in 60 Fa.
' Water, within a L of the Land; holding this Courfe for 15
- Ls, till we came to a large Opening which run into the Land
' Weft ; into which we enter'd for the length of 6 Ls , but
' found it to be only a Bay, tho very wide : fo that we
' were obliged to ftecr N.E. at leaft 12 or 15 Ls , to come clear
' of the Land, after which we held on our Courfe norcherly
' and N.W. We afterwards fearch'd diligently all the Coatt,
' and went into every Bay or Sound, of which there were many, in hopes of finding fome way out towards the N.W.
- but in vain; tho here we faw no Land right bcfore us, as we
- had done before.
- But having failed thus N.W. many Ls, at length to our - Surprize we found fhallow Water ; and from 60 Fa. the Sound-
- ings hoal'd as we went ou to 11 Fa, then to 10, and ' the Water thick, black, and muddy : at lengeh we had but
' ${ }^{5} \mathrm{Fa}$. Upon which we thought fit to come to an An-- chor, and Souuding farther with our Boar, we came to 3 - Fa. foft black oaze, or rather Mud.
- Secing then we could fail no farther this way, we deter-
- min'd to pafs over to the Land which we had feen before,
- and which lay now to the caftward of us: fo we ftecr'd N.N.E.
- And' here alfo, upon our coming within $\rho$ Ls of the Land,
- we found as little Depth as before; fo we came to anchor a-
- gain, and rode all Night in 5 Fa, and here from our Topmatt - Head we could perceive a high mountainous Country on the
- N.W. running crofs caftward, as thote had done to the weft-

I Sood Number of Troops to defend them, moft of the faid Cruizers have given over the Scarch, and thofe that have attempted it have milcarry'd.

From the Place where Sir Francis Drake careen'd, which lics in Lat. 38, on the W. fide as above, the Shore of Califoruia lies N.E. by E. if Sir Francis Drake's Account is to be depended upon: he meafur'd from Guatulco to the northward Yoo Ls ; but, as that is from Lat. 15 d .30 m . to 43 d . only, it is not fo far by $24^{\circ}$ Ls. So that it muft be fuppos'd they might make out the reft by frequent coafting the Bays and Bights, in learch of fome Outler, which however they could not find, but found the Land on the faid W. fide all low and plain, without any Rivers or Harbours, till they came to the Lat. of 38 .

It is our unhappinefs, that Sir Francis Drake's Account of this Coaft is rather fill'd with a Relation of the Pcople, the Reecption he met with among them, the long Story of their King, and of his taking his Surrender of the Country to Queen Elizabeth, and doing homage to her, than with any Delcription of the Coalt, the Bays, Rivers and Harbours, or the Soundings. Depths and Dangers on or near the Shore : fo that we gather little from him, but that he was in fuch a Latitude, found fuch a Harbour in a decp Bay, and Itay'd there to careen and grave his Ship.

What other Accounts of this Illand we have, is from a Spawith Journal of two Ships, which crofling over from St. Iago made the Bay of Santa Cruzc on the E. Shore of California, and anchor'd there in 25 Fa . Water: 'Tis fuppos'd they called this Place the Harbour of Santa Cruze; for we meet with no European Account of Names given to any Placesbefore that time.

From thence they coalted to the N . kecping off in the Gulph, fo as having fometimes Land in fight on both fides, the breadth of the Gulph could not be above 20 to 25 Ls broad, till they came the height of Catoo de Los Playas in Lat. 38.
$N . B$. This muft be fuppos'd to be oppofite to the Bay on the W. Shore, where Sir Francis 'Drake careen'd his Ship.
In this part of the Gulph the Spani/h Account tells us they met with abundance of 1fands, fome of a large Extent, ftretching ulually with the Gulph N.W. and S.E. beyond thefe they found the Gulph grow narrower, till at laft they found the Land clofing upon them.

This Accomnt 1 thall give in their own words, taken from the Spanilh, tranflated into $\mathcal{D} u t c h$, as follows,

- The Day following we had a fair Wind, which held till - Night; and in that Space we run N. and N.N.W. 20 L.s. All - the Coalt of Califorvia during that Space is low Land, with - feattering little Hills all over ir, but neither Grafs nor Trees - growing on it; but it tcemed to be a dry whitifh Sand. At - Night we canc to an Anchor in 20 Fa. Water, about 2 Ls - from the Shore.
- Early the next Day we weiglid, and continuing our Courfe - northwird, caus into a kind of Strcight or Sound about 12
many, in
- but in vain
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It is alled fide, which, the help of th croffing a flat gable : in wh no way or $P$ other Sea.

To come gocs on N.W cover'd, bec: higher than Blanco in La the Acapulco

From this Ports on the Spaniards $h$ times landed there is no C are feldom vi de los Reyes,
c caid

- many, in hopes of finding fome way out towards the N.W.
- but in vain ; tho here we faw no Land right before us, as we
- had done before.


## which

 lifor-edeward only, they ights, find, with.- But having failed thus N.W. many Ls, at length to our - Surprize we found fhallow Water; and from 60 Fa. the Sound' ings fhoald as we went on to is Fa. then to 10 , and
' the Water thick, black, and muddy : at length we had but
' 5 Fa. Upon which we thought fir to come to an An-- chor, and Sounding farther with our Boat, we came to 3 - Fa. foft black oaze, or rather Mud.
- Secing then we could fail no farther this way, we deter-- min'd to pafs over to the Land which we had feen before,

6 and which lay now so the caftward of us: fo we fteer'd N.N.E.
' And here alfo, upon our coming within 5 Ls of the Land,
' we found as little Depth as before; fo we came to anchor a-
' gain, and rode all Night in 5 Fa. and here from our Topmaft

- Head we could perceive a high mountainous Country on the
- N.W. running crofs caftward, as thofe had done to the weft' ward, and joyning the Mountains on the fide of the Main.
' Having thus fearch'd both Shores, and finding it all thoal - Water beyond us, we concluded to fteer our Courfe back ro - the Streight which we had pafs'd; and accordingly tack'd a' bour, and for 3 days failed S.W. anchoring at Night in 11 Fa. 6 Water.
By this Account there was found an Opening, and a Streight with a Paffage thro'; but it feem'd only a Paffage out of one Gulph iuto another, and that the outer Part, tho large too, was fmall compar'd to the other; fo that they foon found themfelves embay'd, and firr vunded with the Terra Firma of America. So that unlefs there was fome Channel which they could not perccive, the Land of Califorinia muft join to the Continent on that fide.

It is alledg'd indecd that they did fee a Channel on the $W$. fide, which, from the Topmalt-head of their Ship, and with the help of the Sun-fhining on the Water, they could perceive crolfing a flat Country to the N.W. but not fuch as to be navigable : in which Cafc California might be an Inand, and yet no way or Paffage practicable for Ships to be found into any other Sca.

To come then to the Weftern Shore, there the Sea no doubr goes on N.W. and N.E. much farther than has yet been difcover'd, becaufe no Ships have been known to tail that way higher than Sir Fra. 'Drake who was in Lat. 43 d. and to Cape Blanco in Lat. 40 d which is the firt Land of California, which the Acapulco Ships make in their Return from the Philippines.

From this Cape there are feveral very good Harbours and Ports on the W. or rather S.W. fide of the Ifland, which the Spaniards have given Names to, and on occalion lave tometimes landed in, and gone afhore amony the Natives: bur as there is no Commerce rhere, and but litile Refrefliment, the's are feldom vifited. The chicf of them are St. Sibaffiun, rlowitht de los Reyes, in Lat. 40, La Concuption in Lat. 35, Poito de

## Saiting Directions for the Cour

St. Diego, Babia de todos los Santos, Rio de St. Cbrififoval, Ship Bay de St. Martin, in Lat. 25 . and Port de Seguro in 23 d.

The moft foutherly of thele, and which is the Port formerly made ufe of by Sir Thomas Cavendi $h$, when he took a great Manilla Ship, Anno 1587, and of late by the Captains of the Duke and Dutchefs when they did the like, is called Porto Seguro, or the Safe Harbour : here is a good Harbour indeed for Ships of any Burthen, well fecured from moft Winds, but efpecially from the N. and N.W. or N.E. Winds, which chicfly blow on this Coaft : and here you may ride very cafy in what Depth of Water you pleafe.

From hence the European Ships, which defign to return by the Eaf-Indies, take their Departure, ftecring S.W. to get into a more fouthern Latitude : and this Land likewife the Manilla

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[^2]:    N. B. Herc is no Navigation beyond the Town, notwithtanding the Twied is fo great a River: for within

[^3]:    

    Arwaroot is the utmoft Point of Land S.E. of the whole Kingdom of Ireland; 'tis diftant from the Lands-cnd of England about 40 Ls. and juft as many Miles from the Lands-cnd of Wales called St. Da-

[^4]:    When yo

[^5]:    N.B. Our Pilot Rooks obferve that St. cindero is a very good Harbour, but not lafe to go in or out without a Pilor.

[^6]:    
    R O M Cape 7 tomnthelt, the moft iortherly Point of Adiorea, to Cape imose, the northermott Cape of A/inorch, is N.N.F. dilt. is Ls. Thence to the S.W. Cupe of Mincrais is I I. S. Shy E. Between them are a lafe Bays, with rood Rding, lecure from N. Wimets, and allochers to the

[^7]:    
    HE weftermoft Point of the Ifland of Candia is call'd Citpe' St. \%oln Baptifta, ir lies from Cape 'Paffaro in Sicily E. by S. $1+0$ Ls. or thereabouts. This CapeSt. John 1, low I.and, and the Ground about it is foul, there lying near it two or three grear Rocks; but to the caltward of the Cape

[^8]:    E. by N .

[^9]:    'Sunday the 8th, we put in boldly for the Seveight: Le Ataire' The Enerance is known by three mitorm Hills, which we ' called the Three Brothers, lying in a Line near one atiother. ' and over them a high Mometan within Land cover'd with - Suow.

[^10]:    Divelions from the Corft of Malacea the' the Niw and Ohd Streights of Sincapore, aind onتiand tozazds the Coalt of China,

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