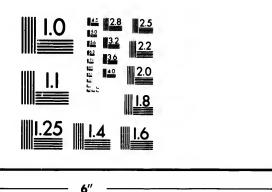


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By NATHANIEL C

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Printed for James and John Knapton, William and John in Bartholomew-Close; Arthur Bestesworth, John Os Row; John Senex in Fleet-street; Edward Symon in Corn St. Martin's Lane; and the Executors of William Taylor decorates

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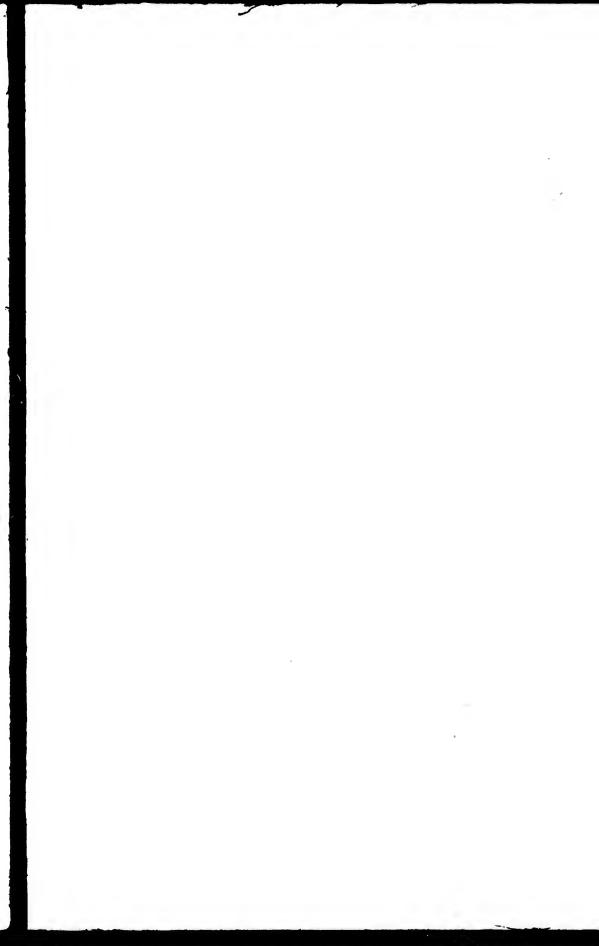
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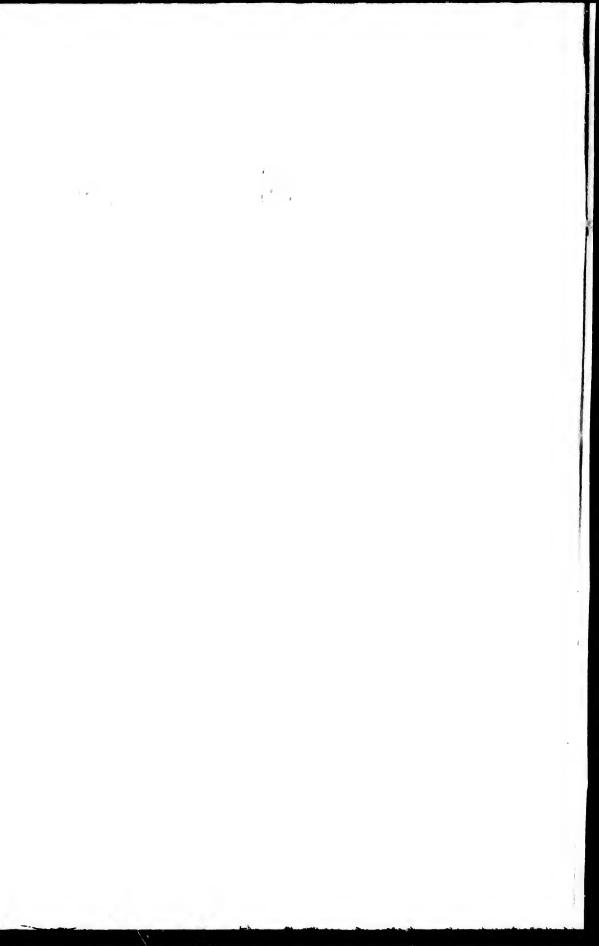
CHARTS is made Plain and Easy to the meanest on on the said CHARTS, and the Arithmetical Computations to judge of the Truth of the said CHARTS; and the Errors riner may avoid them.

ANIEL CUTLER.

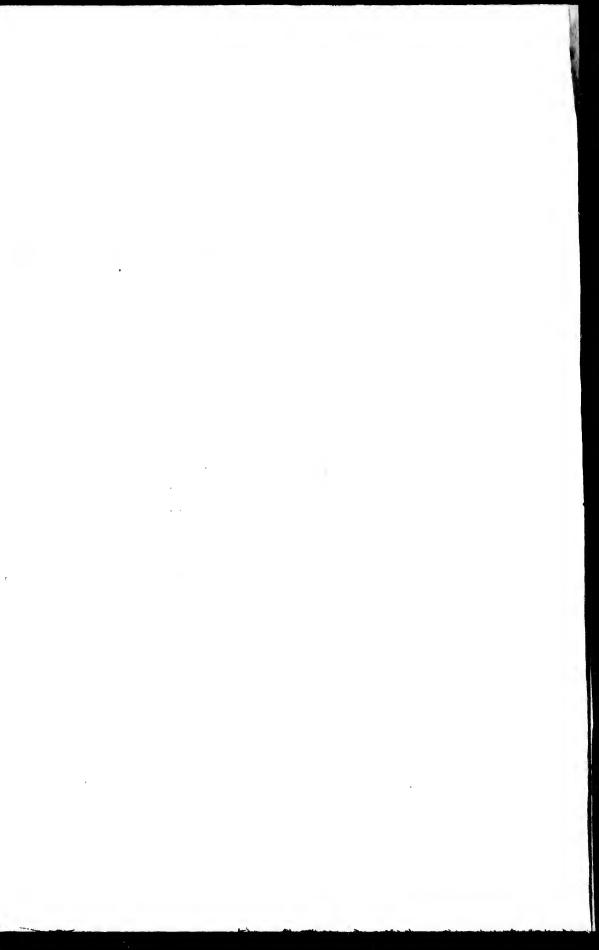
$O N \mathcal{D} O N$:

CLIAM and JOHN INNYS in St. Paul's Church yard; JOHN DARBY ORTH, JOHN OSBORN and THOMAS LONGMAN in Pater-nosterated Symon in Cornhil; Andrew Johnston in Peter's Court in LIAM TAYLOR deceased. M.DCC.XXVIII.









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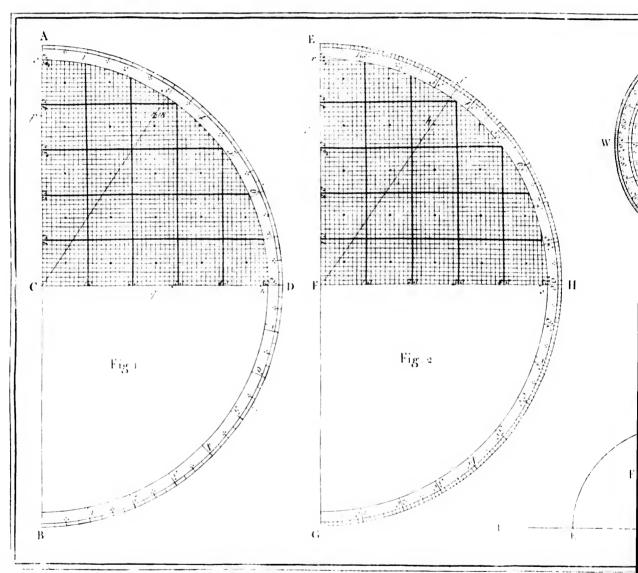
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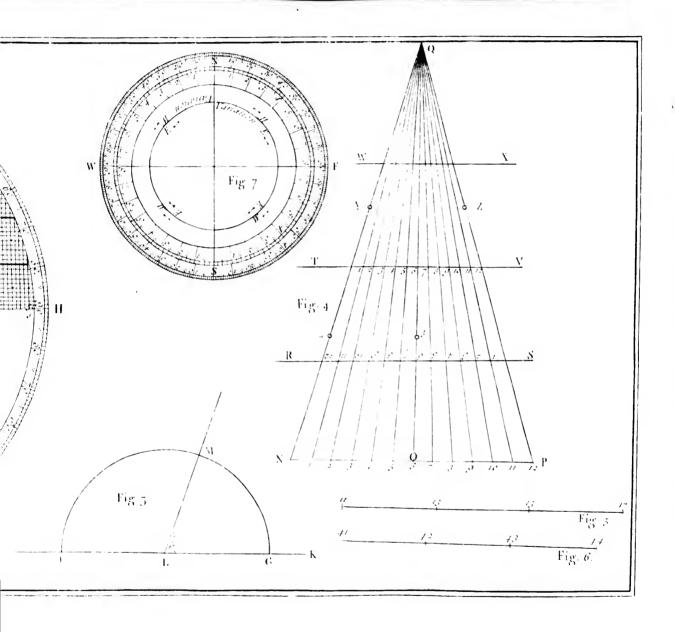
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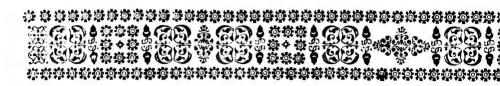
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OR the more easy Use of the GLOBULAR CHARTS and other Purposes in Navigation, it will be proper for the Mariner to make on Velum, thick Parchment, or Pastboard (or to have made in Brass) two Protractors in the following Forms:

Figure 1. Draw A B, and e-rect C D perpendicular thereto; on the Center C, with an Inter-

val of about 3 Inches, describe the Semi-circle ADB: Divide each Quadrant, AD and DB, into 8 equal Parts, representing the Points of the Mariner's Compass, number them, as in the Figure, and divide each of those Points into Half-points and Quarter-points.

After the fame manner may another Protractor be made, in which each Quadrant may be divided into 90 equal Parts or Degrees, as EHGE. Fig. 2.

Again, Divide each of the Radius's, Co, Cn, Fr, and Fs, into 50 equal Parts, and thro' the feveral Divisions draw Lines parallel to the said Radius's; as the Figures 1, 2, direct.

The Use of these Protractors are,

I. To lay down to y given Angle.

E X A M P L 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, for that the Side of the Protractor E.G. may coincide with the 4. Having the and Dep

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4. Having the Latitude fail'd 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° 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.

Diff. of Laritude Latitude arrived to 34 35 N. Sum of the Latit. 69 35 Middle Latitude 34 47

Lay the Center C of the Protractor (1), over F the Center of Latitude came from 35 00 N the Protractor (2), to that its Edge 00 25 S. C A may pass thro' the Middle-Latitude 34° 47' (f), in the Quadrant EH: count the Departure 35 miles from F to g; thro' the Point (g) imagine a Line drawn parallel to FH, as gh; cutting the Edge CA of the upper Protractor *, *ThefePro-

in the Point (b); then will the faid Edge shew F b the Diff. tractors of Longitude to be 42 + miles. male in

Univerfally making E f the Middle-Latitude, F g the De-Brass, may be had of parture, F b will be the Diff of Longitude. Mr. Tho.

And here again, 4, 5, 4, of the Departure will give accor-wright, dingly $\frac{1}{2}, \frac{1}{3}, \frac{1}{3}, \frac{1}{3}, \frac{1}{3}c$. of the Diff. of Longitude.

This Method of finding the Diff. of Longitude will be exact framentenough in all short Distances failed, not exceeding 100 or 150 Maker 13 miles, and in Latitudes not near the Poles; but in large Diff. His Maie-tances, and in Latitudes near the Poles, it will be best for the Orrery and Mariner to find the Diff. of Longitude by help of the Table Gloss' m of meridional Parts, by the common Method taught.

T may be proper also for the Matiner to make the following Figure on Paper. F10. 4.

them, as in the Figure, and divide each or those Points into Half-points and Quarter-points.

After the fame manner may another Protract. De made, in which each Quadrant may be divided into 90 equal Parts or Degrees, as EHGE. Fig. 2.

Again, Divide each of the Radius's, Co, Cn, Fr, and Fs, into 50 equal Parts, and thro' the several Divisions draw Lines parallel to the said Radius's; as the Figures 1, 2, direct.

The Use of these Protractors are,

I. 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,

to make an Angle of 70 Degrees.

Lay the Center of the Protractor to the given Point L, fo that the Side of the Protractor E G may coincide with the given Line I K; then by 70°, in the Limb of the Protractor, make a Point on the Paper, as M; by L and M draw a Line, the Angle M L G is an Angle of 70 Degrees.

2. Having the feveral Courses and short Distances sailed, as in the Log-Book, to find the Dist. of Latitude and Departure

for each.

EXAMPLE.

A Ship fails N.E. by N. 45 Miles, to find the Diff. of Lati-

tude and Departure.

Lay the Center F of the Protractor (2) upon the Center C of the Protractor (1), so that its Edge F E may pass thro' the 3d Rumb, as the Line 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 Line drawn parallel to C D, as pm; C p equal to mq, estimated by the Divisions from the Center C, shews the Diff. of Latitude to be $27 \pm miles$, and (pm) the Departure $25 \pm miles$.

If the Distance given be above 50 miles, lay off $\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$, of the same, it will accordingly show $\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$, of the Dist.

of Latitude and Departure.

3. Having given the Diff. of Latitude and Departure, to find the Course and Distance.

EXAMPLE.

A Ship makes her Diff. of Latitude 27 ; miles, and her De-

parture 25 miles, to find her Course and Distance.

The Diff. of Latitude 27 i miles being counted from C to p, and the Departure 25. les from (p) to (m), and the Center F of the Protractor (2) being laid on the Center C of the Protractor (1), fo that its Edge F E may touch the Point (m), the said Edge F E will shew the Course in the Quadrant AD to be 3 Points, and the Distance C m to be 45 miles.

If the Diff. of Latitude or Departure be too large for the Protractor, lay off $\frac{1}{4}$, $\frac{1}{3}$, of the Diffance accordingly.

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This Method of finding the Diff. of Longitude will be exact framentenough in all short Distances failed, not exceeding 100 or 150 Maker 19 miles, and in Latitudes not near the Poles; but in large Dif- 11/15 Majetances, and in Latitudes near the Poles, it will be best for the Green and Mariner to find the Diff. of Longitude by help of the Table Glose in of meridional Parts, by the common Method taught.

T may be proper also for the Matiner to make the following Figure on Paper. Fig. 4.

Draw the Line NP, and from O creet 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 each of which Divisions, and the Point Q, draw Lines; draw also three, four, or more Lines, parallel to NP, as RS, TV, WX, &c.

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

E~X~A~M~P~L~E~ 1.

To divide each of the equal Parts of the Line 11. 17. Fig.

5. into 12 equal Parts.

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Take the Part 11. 13. in the Compasses, and apply the Points of the Compasses in a parallel Position to TV in Fig 4, as near as may be, till they fall in the outer Lines NQ and PQ, as in the Points Y and Z; fold the Paper Back to Back by the Points Y and Z, to that the folded Edge may be parallel to TV, the Distance YZ on the Edge of the folded Paper applied to the several equal Parts of the Line 11.17. they may thereby 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 Compasses, and apply the Points of the Compasses in a parallel Position to R S in Fig. 4. as near as may be, till they fall in the Lines O Q and N Q, as in the Points (a) and (b). Fold the Paper Back to Back by the Points (b) and (a), so that the folded Edge ab may be parallel to RS; the Distance ab on the folded Edge being applied to the several Equal Parts of the Line 41, 44, they may thereby be readily divided each into 6 Equal Parts.

If the Mariner divide each Quadrant of a Circle into 90 Equal Parts or Degrees, and also into 8 Equal Parts, representing the Points of the Mariner's Compals, and those 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 for the Variation of the Compals in each Courle before he fets them down in his Log-Book.

$E \quad X \quad A \quad M \quad P \quad L \quad E \quad S.$

Course by the	Variation.	True Course.
Compass.	-{ Point E. Point W.	N.N.E. <u>‡</u> E. N. by E. <u>‡</u> E.
S.E. by E. ‡E.	5 Point E.	S.E. & E.
S.W	Tl Point W. ∫ Point E.	E.S.E. S.W. ‡ W.
	Point W.	S.W. by S. 1 W. N. 45° W.
N. 50°. W	$-{}^{\circ}_{5} \circ \widetilde{\mathbf{w}}$.	N. 55° W.

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 crocked Lines is from the Left head.

The Curve, or crooked Lines, c to the Right-hand, are Parallels of I

Lines.

The Figures at the Top or Botton
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The Figures on each fide of each ly the Figures placed to that Meridi middle of each Chart, thew the Do

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The Mariner (at the End or each 24 Hours failing) finding the Latitude and Longitude his Ship is got into, by help of the 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 Longitude she is got into, is most to be depended on, and ought constantly to be used.

PROBLEM IV.

Given, Any Point on the Chart.

From thence to draw any given Rhumb.

Here it is to be observed. That by reason the Meridians on the Globe do incline towards each other, till at length they all meet in the Poles, and like Rhumbs, making equal Angles with every Meridian which they pals thro': Therefore the Rumbs are not Right Lines, but Curves, or Spiral Lines, on the Globe; and therefore must be so drawn on these Charts. P V 4 M P I, E 1.

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PROBLEM III.

Given, The Latitude and Longitude of a Point or Place. Required, Such Point or Place on the Chart.

EXAMPLE.

A Ship is got into the Latitude of 190 North, Longitude 3° 30 East: To find the Point or Place on the Chart where the is. Fig. 8.

Lay the Edge of a Ruler, as Z X, over the given Longitude 3° 30' East, both in the Parallel of 20° (the next Parallel above the given Latitude) as also in the Parallel of 150 (the

next Parallel below the faid Latitude).

Then from the graduated Meridian passing nearly thro' the middle of the Chart, from the Parallel of # Degrees take the Distance to the given Latitude 190, the same Distance laid by the Edge of the laid Ruler from the same Parallel of in Degrees the same way, will give the Point A the Place where the Ship is.

	L_{α}	atitude.	L	ongitude.	
After the fame manner there being given the	15	25 N. 56 N. 20 N.	7 6 2	40 E. 68 E. 45 W.	The Ship will C be found to D

the Point F. b veral Western

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To lay off a This may be passing nearly 60 Miles for each Leagues on the N.B. If the 1 given Dift:

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From the Po W.S.W. Rhumb Take 5 Degr passing nearly th Il have Occasion to lay off tuen

MPLE 2.

down an East Rhumb. Fig. 9. from the Point F to the next Paoff that Distance upon the next om the same Parallel of Latitude, from K to L, from M to N, &c. L, N, &c.

and manuer a West Rhumb might be drawn from the Point F, by laying off the Distance F G upon the next several Western Meridians, from the same Parallel of Latitude.

EXAMPLE 3.

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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 pais thro' the like Degrees 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 faid Point S draw & St Southerly.

PROBLEM V.

To lay off any Number of Miles on any given Rhumb.

This may be done by the help of the Graduated Meridian passing nearly thro' the middle of the Chart, by allowing 60 Miles for each Degree, or by help of the Scale of Miles or Leagues on the Chart.

N. B. If the Rhumb curve much, it will be best to lay off the given Distance by 2, 3, or more fliort Extents taken from the said Graduated Meridian, or Scale of Miles or Leagues.

EXAMPLE.

From the Point A, Fig. 9. To lay off 600 Miles on the W.S.W. Rhumb.

Take 5 Degrees or 300 Miles from the Graduated Meridian passing nearly thro' the middle of the Chart, and lay the same from

EXAMPLES.

Courfe by the	Variation.	True Courfe.
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s.w	5 Point E.	S.W. 1 W.
3.W	Point W.	S.W. by S. : W.
N. 50°. W	_5° E.	N. 45° W.
14.30	-7 5° W.	N. 55° W.

In the Globular Charts, the Lines drawn from the Top to the Bottom are Meridians, or North and South Lines; these 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, drawn from the Left-hand to the Right-hand, are Parallels of Latitude, or East and West

Lines.

The Figures at the Top or Bottom of each Chart, shew the Degrees of Longitude East or West from the First Meridian, passing thro' the City of London.

The Figures on each fide of each Chart, but more accurately the Figures placed to that Meridian passing nearly thro' the middle of each Chart, shew the Degrees of Lat. N. or S.

PROBLEM I.

Given, Any Point or Place on the Chart. Required, Its Latitude.

E X A M P L E.

The Point A is given. Fig 8. To find its Latitude.

The shortest Distance from the Point A to the Parallel of B Degrees being laid on the graduated Meridian, passing nearly thro' the middle of the Chart from the same Parallel of B Degrees the same way, shews the Latitude of the Point A to be 19° 00' North.

After the fame man- $\begin{pmatrix} B \\ C \\ \text{ner the Point or} \\ \leftarrow D \end{pmatrix}$ will be found to be $\begin{pmatrix} 15 & 25 & N. \\ 12 & 56 & N. \\ 8 & 20 & N. \\ 2 & 40 & N. \\ 1 & 30 & S. \end{pmatrix}$

PROBLEM II.

Given, Any Point or Place on the Chart. Required, Its Longitude.

EXAMPLE.

The Point A is given. Fig. 8. To find its Longitude.

Lay the Edge of a Ruler, as ZX, by the given Point A, fo that it may pass thro' the like Degrees and Minutes of Longitude both in the Parallel of 20° (the next Parallel above the given Point) as also in the Parallel of 15° (the next Parallel below the given Point); then will the said Edge of the Ruler ZX, shew the Longitude of the given Point A to be 3° 3° East.

After the fame man- $\begin{bmatrix} B \\ C \end{bmatrix}$ will be found to be $\begin{bmatrix} 7 & 40 & E. \\ 6 & 08 & E. \end{bmatrix}$

The Mariner (at the End of each 24 Hours failt the Latitude and Longitude his Ship is got into, by Table of meridional Parts, according to the commtaught, may thus prick off his Ship's Place on And this Method of finding the Ship's Place on the Latitude and Longitude she is got into, is morpended on, and ought constantly to be used.

PROBLEM IV.

Given, Any Point on the Chart.

From thence to draw any given Rhumb. Here it is to be observed. That by reason the

Here it is to be observed. That by reason the M the Globe do incline towards each other, till at leng meet in the Poles, and like Rhumbs, making ed with every Meridian which they pass thro': The Rumbs are not Right Lines, but Curves, or Spirathe Globe; and therefore must be so drawn on the

 $E X A M P L E_{-1}$.

From the Point A in Fig. 9. to draw a W.S.W. I Lay the Center of the Protractor to the given I that its fide B C may coincide with the Meridian in Point A is, if A happens to be in a Meridian; Point A happens not to be in a Meridian, as in ple, then so lay the Center of the Protractor by the that its fide B C may pass thro' like Degrees and Longitude in the two next Parallels of Latitude to (the one above it, the other below it). The Protractor make a Point on the Chart, as D, Points A and D draw a Line till it cut the next, i. Meridian, in the Point (1).

Again, Lay the Center of the Protractor by th (1), so that its side BC may coincide with the said ridian, and by the fixth Point or W.S.W. Rhumb of the Protactor make another Point on the Char and the said Point (1) draw the Line (1. 2.) cuttin i. e. the eighth Meridian in the Point (2.)

After the fame manner draw Lines from one Met other, making Angles of 6 Points with every Myou have the Rhumb A, 1, 2, 3, 4, 5, 6.

In like manner may any Rhumb, whether a V Half-point, or Quarter-point of the Compass be And if the other Progractor, whose Limb is divide 90 Degrees be used, any Rhumb in Degrees may be a

It is to be noted, That the nearer the Meridian together on the Chart, the more accurate will the when laid down by this Method: The Rhumb enough if the Meridians pass thro' every single Degitude; but if the Meridians on the Chart pass throw Degrees of Longitude, in such Case, if the Meridians on his middle between every two of such Meridians, shall have Occasion to lay off such Rhumb.

And feeing those R humbs that are near the N run a great length before they cross the next N Mariner may draw new Meridians thro' every 3 Longitude, so far as he shall have Occasion to

sach 24 Hours failing) finding thip is got into, by help of the ording to the common Method is Ship's Place on the Chart. Ship's Place on the Chart by is got into, is most to be dely to be used.

E M IV.

given Rhumb.

hat by reason the Meridians on ch other, till at length they all Rhumbs, making equal Angles ney pass thro': Therefore the but Curves, or Spiral Lines, on the so drawn on these Charts.

to draw a W.S.W. Rhumb, ractor to the given Point A, fo with the Meridian in which the be in a Meridian; but if the a Meridian, as in this Example the Protractor by the Point A, o' like Degrees and Minutes of rallels of Latitude to the Point A below it). The Protractor being W.S.W. Rhumb, in the Limb of on the Chart, as D, and by the

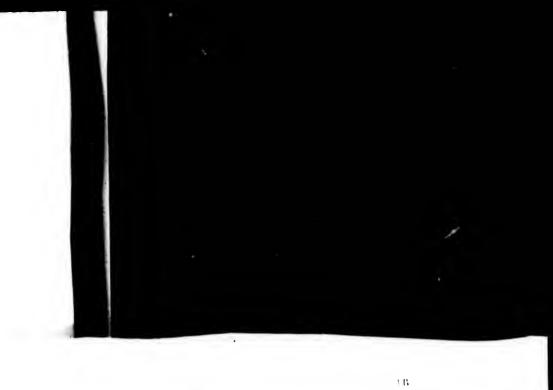
the Protractor by the said Point coincide with the said ninth Metor W.S.W. Rhumb in the Limber Point on the Chart, by which le Line (1. 2.) cutting the next, is Point (2.)

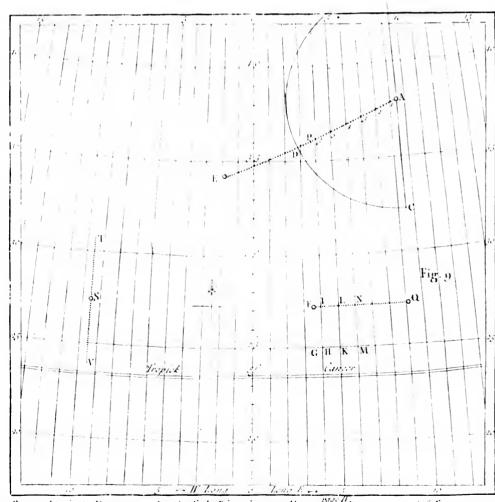
ill it cut the next, i. e. the ninth

v Lines from one Meridian to anpoints with every Meridian, and

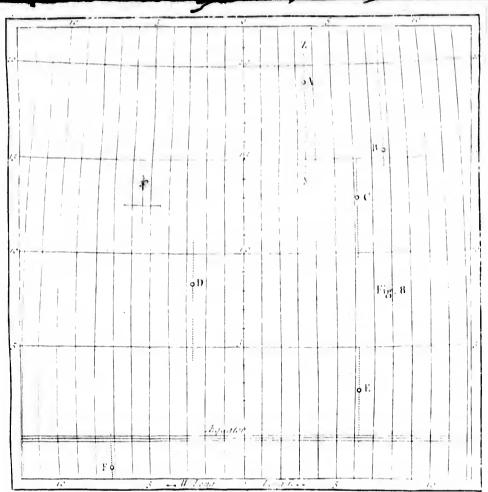
humb, whether a Whole point, tof the Compass be laid down: whose Limb is divided into twice in Degrees may be also described. In nearer the Meridians are placed more accurate will the Rhumb be ethod: The Rhumb will be near thro' every single Degree of Lonon the Chart pass thro' only every in such Case, if the Mariner would new Meridians on his Chart in the of such Meridians, so far as he ff such Rhumb.

s that are near the North or South ney crofs the next Meridian, the ridians thro' every 30 Minutes of ll have Occasion to lay off such





Paste this in y Nagent under the Vitle Directions to Mannets, Chunn a toward & Septe opente & colors



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EXAMPLI

The Point A is given. Fig. 8. To fit The shortest Distance from the Point of a Degrees being laid on the graduat nearly thro' the middle of the Chart fro of a Degrees the same way, shows the La to be 19° 00 North.

After the fame manner the Point or C will be found in the La Place C of C

PROBLEM

Given, Any Point or Place on the Character, Its Longitude,

EXAMPLE

The Point A is given. Fig. 8. To find Lay the Edge of a Ruler, as ZX, by so that it may pass thro' the like Degrees a gitude both in the Parallel of 20° (the negiven Point) as also in the Parallel of 15 below the given Point); then will the sai ZX, shew the Longitude of the given 3° 30 East.

After the fame manner the Point or $\{D\}$ will be found in the Lon Place $\{D\}$ of $\{E\}$

If each Degree of Longitude on the Fig. 4, be divided into 6 Equal Parts, t Longitude in each Parallel may very accuby the Eye.

PROBLEMI

Given, The Latitude and Longitude of Required, Such Point or Place on the E X A M P L E

A Ship is got into the Latitude of 19 3° 30' East: To find the Point or Place the is. Fig. 8.

Lay the Edge of a Ruler, as Z N, over 3° 30' East, both in the Parallel of 20' above the given Latitude) as also in the next Parallel below the said Latitude).

Then from the graduated Meridian pass middle of the Chart, from the Parallel of Distance to the given Latitude 19°, the sithe Edge of the said Ruler from the same the same way, will give the Point A to Ship is.

Latitude. Longitude After the fame 15 25 N. 7 40 E. manner there 56 N. 6 08 E. 45 W. 20 N. 8 2 being given 40 N. 12 E. 6 30 S. 03 W. 7

Yen. Ig 8. To find its Latitude.

Jance from the Point A to the Parallel laid on the graduated Meridian, passing dle of the Chart from the same Parallel ic way, shews the Latitude of the Point A

ROBLEM II. t or Place on the Chart. ngitude,

EXAMPLE.

yen. Fig. 8. To find its Longitude.

a Ruler, as ZX, by the given Point A, ro' the like Degrees and Minutes of Lontrallel of 20° (the next Parallel above the in the Parallel of 15° (the next Parallel at); then will the faid Edge of the Ruler ongitude of the given Point A to be

$$\begin{cases}
B \\ C \\ D
\end{cases}$$
will be found to be
$$\begin{cases}
7 & 40 & E. \\
6 & 08 & E. \\
2 & 45 & W. \\
6 & 12 & E. \\
7 & 08 & W.
\end{cases}$$

f Longitude on the Chart, by help of to 6 Equal Parts, the like Minutes of rallel may very accurately be judged of

ROBLEM III.

ude and Longitude of a Point or Place. oint or Place on the Chart.

E X A M P L E.

o the Latitude of 19° North, Longitude d the Point or Place on the Chart where

Ruler, as Z X, over the given Longitude the Parallel of 20° (the next Parallel tude) as also in the Parallel of 15° (the the said Latitude).

iduated Meridian paffing nearly thro' the from the Parallel of # Degrees take the Latitude 19°, the fame Dillance laid by Ruler from the fame Parallel of # Degrees give the Point A the Place where the

ititude. Longitude. 25 N. 40 E. 7 The Ship will be found to D 56 N. o8 E. 6 2 45 W. > be in the 20 N. 40 N. E 12 E. Point -30 S. o8 W.

Meridian, in the Point (1).

Again, Lay the Center of the Protractor by the faid Point (1), so that its side BC may coincide with the said ninth Meridian, and by the fixth Point or W.S.W. Rhumb in the Limb of the Protactor make another Point on the Chart, by which and the said Point (1) draw the Line (1. 2.) cutting the next, i. e. the eighth Meridian in the Point (2.)

After the same 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, Half-point, or Quarter-point of the Compass be laid down: And if the other Protractor, whose Limb is divided into twice 90 Degrees be used, any Rhumb in Degrees may be also described.

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 enough if the Meridians pass thro' every single Degree of Longitude; but if the Meridians on the Chart pass thro' only every two Degrees of Longitude, in such Case, if the Mariner would be very exact, he may draw new Meridians on his Chart in the middle between every two of such Meridians, so sar as he shall have Occasion to lay off such Rhumb.

And feeing those R humbs that are near the North or South run a great length before they cross the next Meridian, the Mariner may draw new Meridians thro' every 30 Minutes of Longitude, so far as he shall have Occasion to lay off such

Rhumbs.

EXAMPLE 2.

From the Point F to lay down an East Rhumb. Fig. 9.

Take the nearest Distance from the Point F to the next Parallel of Latitude, F G; lay off that Distance upon the next several Eastern Meridians from the same Parallel of Latitude, the same way as from H to I, from K to L, from M to N, &c. and connect the Points F, I, L, N, &c.

After the same manner a West Rhumb might be drawn from the Point F, by laying off the Distance F G upon the next several Western Meridians, from the same Parallel of Latitude.

EXAMPLE 3.

From the Point S to draw a due North or South Line. Fig. 9. Lay the Edge of a Ruler by the Point S, so that it may pass thro? the like Degrees and Minutes of Longitude in the two next Parallels of Latitude to the said Point (the one above it, the other below it) and from the said Point S draw & Southerly.

PROBLEM V.

To lay off any Number of Miles on any given Rhumb.

This may be done by the help of the Graduated Meridian passing nearly thro' the middle of the Chart, by allowing 60 Miles for each Degree, or by help of the Scale of Miles or Leagues on the Chart.

N. B. If the Rhumb curve much, it will be best to lay off the given Distance by 2, 3, or more short Extents taken from the said Graduated Meridian, or Scale of Miles or Leagues.

From the Point A, Fig. 5. To lay off 600 Miles on the W.S.W. Rhumb.

Take 5 Degrees or 300 Miles from the Graduated Meridian passing nearly thro' the middle of the Chart, and lay the same

55 - 1 SS

Paste this my Mist.

Directions to MAR

from A to P, and from P to E, or lay off 2 Deg. or 120 Miles 5 times from A to E.

PROBLEM VI.

Given, The Latitude and Longitude of a Place failed from, with the Course and Distance 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° 00' N. Longitude 9° 30' E. fails W.S.W. 600 Miles, What Latitude and

Longitude is she gotten into?

The Rhumb being drawn by *Problem* IV. and the Distance 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 found to be 34° 10′ N. and the Longitude 1° 51′ W.

In order that the Mariner may jud Chart, here follows the Arithmetica

As Radius

Is to the Distance 600 Miles

So is the Sine of the Course 67

To the Departure 554 Miles

Latitude came from
Diff. of Latitude
Latitude arrived to
Meridian Diff. of Latitude

As the Diff. of Latitude 230 Is to the Departure 554 So is the Merid. Diff. of Lat. 285 To the Diff. of Lougit. 686

Longitude came from
Diff. of Longitude
Longitude arrived to

EXAMP

Miles.

A Ship from F, Fig. 9. in the Li
3° 30' E. fails due East 300 Miles, WI
The Rhumb being laid down by
by Problem V. the Ship will be ge
Longitude 9° 7' E. by Problem I
The Arithmetical 1

The Arithmetical

As the Sine Comp. of the Latitud Is to the Distance 300 Miles
So is Radius Longil Hours with the omitte

A Sh Longitude a

The

by Proin the I

or 120 Miles

failed from,

s arrived to.

N. Longiatitude and

he Distance
o the Point
e found to

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 those by the Chart as above, which Computations I have omitted, conceiving they would take up too much room.

EXAMPLE 4.

A Ship from the Point A, Fig. 11. in the Latitude 60° 00' N. Longitude 20° 00' W. fails N.E. by E. 1200 Miles, What La-

titude and Longitude is the Ship got into?

The Course being laid off by Problem IV. and the Distance by Problem V. the Ship will be found to be at the Point B, in the Latitude 71° 07' N. by Problem 1. and in the Longitude 20° 53' E. by Problem 11.

The Arithmetical Computation.

So is the Merid. Diff. of Lat. 2851
To the Diff. of Longit. 686]
Longitude came from
Diff. of Longitude ——
Longitude arrived to
EXAMP
A Ship from F, Fig. 9. in the La 3° 30' E. fails due East 300 Miles, WI The Rhumb being laid down by
3° 30' E. fails due East 300 Miles, WI
The Rhumb being laid down by
by Problem V. the Ship will be ge
Longitude 9° 7' E. by Problem 1
The Arithmetical
As the Sine Comp. of the Latitud
Is to the Distance 300 Miles .
So is Radius

10.000000

10.000000

e would be CB 794 Miles, and o A, S.W. by W. 1200 Miles, 'A 1226 Miles; in the former art, the Mariner would contrally Miles more, and in the reality it is.

is for finding the faid true

lar Chart the Mariner will not the true Meridian Distance in short Distances taken from the ly thro' the middle of the Chart, Leagues on the Chart, as other

nces of Places can be truly exmot fee, whilft it is taken on Meridians are parallel to each last (Fig. 11.) was to be made Latitude of 80°, and two Places on in the Latitude of 60° diffant f two other Places were to be oo, the one bearing due North orth from (n), the two Places e (p) and (g), diffant from each pon the Surface of the Globe, the Latitude of 60°, be diffant hat Place in the Latitude of 80° a bearing

Directions to MARINERS.

from A to P, and from P to E, or lay off 2 Deg. or 120 Miles 5 times from A to E.

PROBLEM VI.

Given, The Latitude and Longitude of a Place failed from, with the Course and Distance 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° 00' N. Longitude 9° 30' E. fails W.S.W. 600 Miles, What Latitude and

Longitude is she gotten into?

The Rhumb being drawn by *Problem* IV. and the Distance 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 found to be 34° 10′ N. and the Longitude by *Problem* II. will be 1° 51′ W.

In order that the Mariner may judge of the Truth of the

Chart, here follows the Arithmetical Computation.

As Radius —	`	10.000000
Is to the Distance 600 Miles		2.778151
So is the Sine of the Course 67°	° 30' —	9.965615
To the Departure 554 Miles		2.743766

As Radius ——		10.000000
Is to the Distance 600 Miles ——		2.778151
So is the Sine Comp. of the Course 22°	30'	9.582840
To the Diff. of Latitude 230 Miles	_	2.360991

Latitude came from Diff. of Latitude		38 00 N.— 3 50 S.	2468
Latitude arrived to		34 10 N.—	2183
Meridian Diff. of La	titude	-	285

As the Diff. of Latitude

As the Departure

So is the Merid. Diff. of Lat. 285

To the Diff. of Longit.

Miles.

N. B. This may be wrought by the common Numbers, as in the Rule of Three, without the help of Logarithms.

Longitude came from 9 30 E.

Diff. of Longitude 11 26 W.

Longitude arrived to 156 W.

EXAMPLE 2.

A Ship from F, Fig. 9. in the Latitude 27° 10' N. Longitude 3° 30' E. sails due East 300 Miles, What Longit. is she gotten into? The Rhumb being laid down by Problem IV. and the Distance by Problem V. the Ship will be gotten to the Point Q, in the Longitude 9° 7' E. by Problem II.

The Arithmetical Computation.

As the Sine Comp. of the Latitude 62° 50′ — 9.949235 Is to the Distance 30° Miles — 2.477121 So is Radius — 10.000000 If the Mariner will take pains to find the Latit Longitudes that the Ship hath got into at the End of Hours by Arithmetical Computation, he will find t with those by the Chart as above, which Computatio omitted, conceiving they would take up too much re

EXAMPLE 4.

A Ship from the Point A, Fig. 11. in the Latitude 6.

Longitude 20°00' W. fails N.E. by E. 1200 Miles.

titude and Longitude is the Ship got into?

The Course being laid off by Problem IV. and the by Problem V. the Ship will be found to be at the in the Latitude 71° 07' N. by Problem I. and in the I 20° 53' E. by Problem II.

The Arithmetical Computation.

As Radius 10.000
Is to the Distance 1200 Miles 3.079
So is the Sine of the Confe 56° 15' — 9.91
To the Departure 998 Miles 2.999
As Radius
Is to the Distance 1200 Miles
So is the Sine Comp. of the Course 33? 45
To the Diff. of Latitude 667 Miles
Eathade 00/ Wines
Latitude came from 60 00 N
Diff. of Latitude 11 07 N.
Latitude arrived to 71 of N
Meridian Dist. of Latitude
As the Diff. of Latitude ————————————————————————————————————
In to the Danester
So is the Merid. Diff. of Latitude
Do to the tribute as it is a Latitude

Longitude came from — 20 00 W.
Diff. of Longitude — 40 53 E.
Longitude arrived to — 20 53 E.

To the Diff. of Longitude

It may be proper here for the Mariner to confict the Departure, altho properly enough made use of discovering the Longitude in the Arithmetical Computabove, yet is not to be depended on for the Estimati Ship's East or West Distance from the Meridian of the failed from (commonly called Meridian Distance) as make use of the same; which Error Mariners have into by their using the Plain Charts; for by that, was to sail from A to B, N.E. by E. 1200 Miles (100 or from B to A, S.W. by S. 1200 Miles, in either would appear by the Plain Chart, and therefore so the would naturally conclude, that his Departure or Meridiance would be 998 Miles, whereas in truth, by reast Inclination of the Meridians in failing from A to B, I

e would be CB 794 N

sins 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.

LE 4. 11. in the Latitude 60° 00' N. by E. 1200 Miles, What Lagot into?

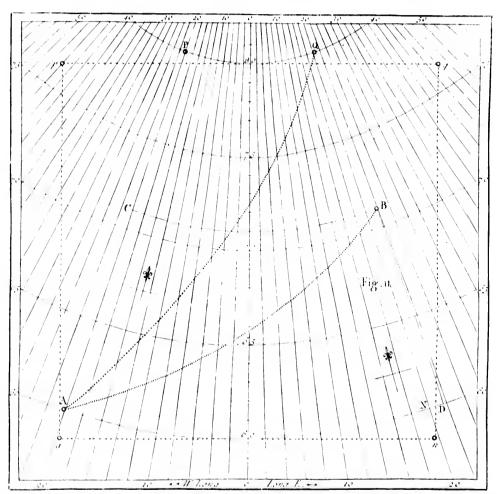
Froblem IV. and the Distance found to be at the Point B, roblem I. and in the Longitude

Computation.

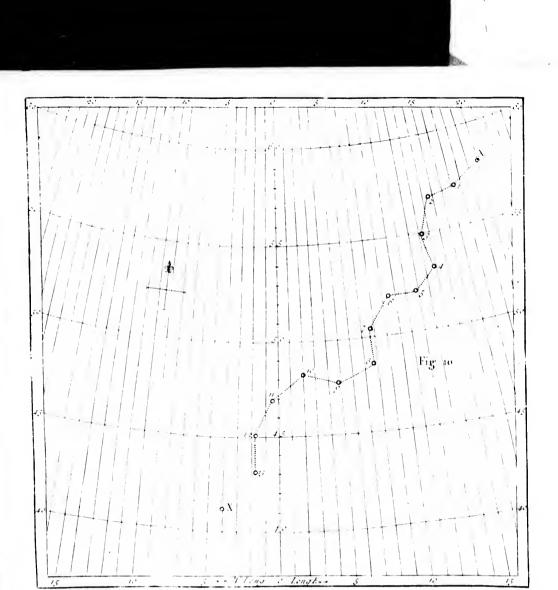
10.000000
les 3.079181
e 56° 15' — 9.919846
2.999027
10.000000
3 079181
urfe 33. 45 9.741739
[iles 2.823920
M. M.
60 00 N4528
11 07 N.
71 07 N6168
1640
Miles.
667
998
ude —— 1640
2453
20 00 W.
40 53 E.
20 52 E.

ne Mariner to consider, That enough made ule of for the Arithmetical Computations as I on for the Estimation of his the Meridian of the Place first Ieridian Distance) as Mariners Error Mariners have been led harts; for by that, if a Ship by E. 1200 Miles (Fig. 11.). 200 Miles, in either Cafe it t, and therefore so the Mariner his Departure or Meridian Difreas in truth, by reason of the ailing from A to B, N.E. by E. e would be CB 794 Miles, and a. A. S. W. by. W. 1250 Miles.





Paste this in the Margent water the Little Directions to Manners page V. Column 2 towards of Lop to feld in



Paste this in g Margent under g litt. Discussione to Manners page V Column I towards h bottom to open to greating

To the Dist. of Longit.

Longitude came from Diff. of Longitude Longitude arrived to E X A

A Ship from F, Fig. 9. in 3° 3° E. fails due East 300 Mi
The Rhumb being laid dov by Problem V. the Ship wil Longitude 9° 7' E. by Pro
The Arithme

As the Sine Comp. of the I ls to the Distance 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 Poin 58° 00′ N. Longitude 20° Latitude 41° 00′ N. Long makes her Way good S.W.b 90 Miles, the 3d Day S.S.W. 110 Miles, the 5th Day S.W. Miles, the 9th Day W.S.W.b Miles, the 9th Day W.S.W. W. 118 Miles, the 11th I Day S.S.W. W. 126 Miles Latitude and Longitude is fand Distance to the faid Po

Having laid off the faid manner aforefaid, the Ship titudes and Longitudes in be found in the Point (13) gitude of 44' W. An S.W. by S. W. nearest di

The Journal of which the

The journal y						
Day of the Month and Year. 5 Jan. 1728.	Sun- day.	N° of Days. 1				
$\begin{bmatrix} 6 \\ 7 \\ 8 \\ \end{bmatrix}$	0	3 4 5 6				
10 ————————————————————————————————————		6 7 8 9				
14 — 15 — 16 — 17 —	0	10 11 12 13				

e Merid. Diff. of Lat. 285 | without the belp of Lo-Diff. of Longit. garithms. 686;

ngitude came from -9 30 E. ff. of Longitude 11 26 W 1 56 W. ngitude arrived to

EXAMPLE 2.

ip from P. Fig. 9. in the Latitude 27° 10' N. Longitude fails due East 300 Miles, What Longit. is she gotten into? Rhumb being laid down by Problem IV. and the Distance blem V. the Ship will be gotten to the Point Q, in the ude 9° 7' E. by Problem II.

The Arithmetical Computation.

Sinc Comp. of the Latitude 620 50' ---9.949235 e Distance 300 Miles 2.477121 adius 10.000000 Diff. of Longitude 337 Miles 2.527886 3° 30' E. ongitude came from iff. of Longitude 5 37 E. ongitude arrived to 9 07 E. EXAMPLE 3.

Ship from the Point A, Fig. 10. in the Latitude o' N. Longitude 20° 00' E. is bound to a Port X, in the de 41° 00' N. Longitude 4° 00' W. the 1st Day she her Way good S.W. by W. 107 Miles, the 2d Day W. by S. les, the 3d Day S.S.W. 120 Miles, the 4th Day S. by E. liles, the 5th Day S.W. 100 Miles, the 6th Day W. 90 the 7th Day S.W. by S. 120 Miles, the 8th Day S. 110 the 9th Day W.S.W. 122 Miles, the 10th Day W.N.W. 18 Miles, the 11th Day S.W. ! W. 124 Miles, the 12th S.W. & W. 126 Miles, the 13th Day S. 122 Miles; What de and Longitude is she got into, and what is her Course

istance to the said Port X? ving laid off the faid feveral Courses and Distances in er aforesaid, the Ship will have past thro' the several Las and Longitudes in the under-written Table, and at last and in the Point (13), in the Latitude 43° 05' N. Lonby S. W. nearest distant 161 Miles.

he Journal of which the Mariner may keep in the following Form.

f the Month	Sun-	No of	Course made good	Dift. of	Latit. cot	Lampit. got
d Year.	day.	Days.	each 14 Mours,	Miles.	into.	into.
in. 1728.	i 1	1	S.W. by W.	107	57° 04' N.	17° 16' E.
		2	W. by S.	90	56 47 N.	
	0	3	S.S.W.	120	54 56 N.	
	1	4	S. by E.	110	53 08 N.	
		5	S.W.	100	51 .57 N.	11 52 E.
	1	6	W.	90	51 57 N.	9 26 E.
	1	7	S.W. by S.	120	50 17 N.	7 40 E.
	l	8	S.	110	48 27 N.	
	ł	9	W.S.W.	122	47 40 N.	
	10	10	W.N.W. ; W.	118	43 14 N.	2 3 E.
	1	111	S.W. 1 W.	124	47 OI N.	0 25 W.
	1	12	S.S.W. , W.	125	45 07 N.	1 44 W
	1	13	S.	122	43 05 N.	

Longitude arrived to ---

It may be proper here for the Mariner to consider, That the Departure, altho properly enough made use of for the discovering the Longitude in the Arithmetical Computations as above, yet is not to be depended on for the Estimation of his Ship's East or West Distance from the Meridian of the Place first failed from (commonly called Meridian Distance) as Mariners make use of the same; which Error Mariners have been led into by their using 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 to A, S.W. by S. 1200 Miles, in either Cale it would appear by the Plain Chart, and therefore so the Mariner would naturally conclude, that his Departure or Meridian Diftance would be 998 Miles, whereas in truth, by reason of the Inclination of the Meridians in failing from A to B, N.E. by E. 1200 Miles, the Meridian Distance would be CB 794 Miles, and no more; but in failing from B to A, S.W. by W. 1200 Miles, the Meridian Distance would be DA 1226 Miles; in the former Case, by the Use of the Plain Chart, the Mariner would conclude his Meridian Distance to be 204 Miles more, and in the latter Case 228 Miles less than in reality it is.

The Arithmetical Computations for finding the faid true Meridian Distances.

As Radius				10.00000
Is to the Diff.	of Longitud	e 2453 Miles	s ——	3. <u>3</u> 89697
So is the Sine	Comp. of t	he Latitude o	fB 18° 53	9.510065
To the Merid				2.899762
As Radius				10.200000
Is to the Diff.	of Longitud	e 2453 Mile	ş	3.389697
So is the Sine	Comp. of tl	ne Latitude o	f A 300 00	9.698970
To the Merid				3.088667

But by the Use of this Globular Chart the Mariner will not be in danger of being so missed: the true Meridian Distance in either Case may be measured by short Distances taken from the Graduated Meridian passing nearly thro' the middle of the Chart, or from the Scale of Miles or Leagues on the Chart, as other Distances are.

How the East and West Distances of Places can be truly expres'd on the Plain Chart I cannot see, whilst it is taken on that Chart for granted that the Meridians are parallel to each other; for supposing a Plain Chart (Fig. 11.) was to be made from the Latitude of 60° to the Latitude of 80°, and two Places (a) and (n) were to be laid down in the Latitude of 60° distant from each other 1200 Miles, if two other Places were to be laid down in the Latitude of 800, the one bearing due North from (a) and the other due North from (n), the two Places in the Latitude of 80° would be (p) and (q), diffant from each orher 1200 Miles also; but, upon the Surface of the Globe, if the two Points A and N, in the Latitude of 600, be diftant from each other 1200 Miles, that Place in the Latitude of 800 bearing Paste the

bearing due North from A would be P, and that in the Latitude of 80° bearing due North from N would be Q, which Places P and Q would be distant from each other no more than 417 Miles; i.e. the Places (p) and (q) on the Plain Chart would be represented 783 Miles farther distant from each other than really they are. On the other hand, If two Places in the Latitude of 80°, distant from each other 417 Miles, be laid down true on the Plain Chart, then two other Places in the Latitude of 60°, respectively bearing due South from the former, would be represented distant from each other no more than 417 Miles also, whereas in reality, upon the Surface of the Globe, they would be distant 1200 Miles; so that, in this Case, the two Places in the Latitude of 60° would be represented 783 Miles less distant from each other than in reality they are.

The Arithmetical Computation is as follows:

As the Sine Comp. of the Latitude of AD 30° — 0.301029

Is to the Distance AD 1200 Miles — 3.079181

So is the Sine Comp. of the Latitude of PQ 10° - 9.239670

To the Distance PQ 417 Miles — 2.619880

Again, If the East and West Distances of Places are laid down true in the middle of the Plain Chart, then the East and West Distances of Places nearer to the Pole will be accordingly represented greater, and those nearer to the Equator less than in reality they are.

The Bearings and Distances of Places also on the Plain Chart must be also faulty. As in the former Case the Course from (a) to (q) must be represented N.E. (the Diff. of Latitude being supposed equal to the Departure) and the Distance 1697 Miles. For

As the Sine of the Course 45° 00 Is to the Departure 1200 Miles So is Radius	***************************************	9.849485 3.079181
-		10.000000
To the Distance aq 1697 Miles		3.229696

But on the Terrestrial Globe the Course will be N. 31° 56′ Easterly, or N.E. by N. nearest, and the Distance 1414 Miles, z. e. the Course will be represented on the Plain Chart 13° 04′ more than it is, and the Distance 283 Miles more than in truth it is. See the Arithmetical Computation.

Latit. from 60 00 N - Latitude to 80 00 N -	1 /	Diff. of Longit. 40°
20	3849 miles.	60
60 1200 Miles.	3049	2400 miles.

As the Meridian Diff. of Latitude 3849 miles Is to the Diff. of Longitude 2400 miles So is Radius	- 3.585348 - 3.380211
	10.000000
To the Tang. of the Course 31° 56'	9.794863

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And in Plain Char fometimes Ship's Wa the Compa all is in hi Evil will b aside their or Globula standing it of the Sur the Degree on the Glo which are Right-Line tudes and I Eye much Mercator's may be la and the curately c taught: B Superficies enough to Capacities whereby mealured o Mariners t Chart only understood represent to Circles of 1 Globe in fitions, an the Truth Superficies Ulc of Ma are represe of Longi Rhumbs, the Magni fented as may be ea or by a co Protractor feveral Co of the M Terrestria.

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As the Sine Comp. of the Course 58° 04 Is to the Diff. of Latitude 1200 miles 10,000000 So is Radius To the Distance 1414 miles 3-150445

And in fuch a multiplicity of Errors and Falfities 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 Steeridge, Lee-way-Currents, Variation of the Compals, &c. whilst it is very likely the greatest Fault of all is in his Plain Chart, which he least of all suspects. Evil will be in great measure remedied, would Mariners lav aside their Plain Charts, and make use of the Mercator Charts or Globular Charts only. The Mercator's Chart, notwithstanding it doth not exhibit to the Eye a true Representation of the Surface of the Earth, nor of the Circles of the Sphere, the Degrees 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 Globe, the Rhumbs on that being Right-Lines which are Curves on the Globe, and the Magnitudes and Distances of Places thereon being represented to the Eye much larger than they really are, yet nevertheless the Mercator's Chart is an excellent Invention; Places thereon may be laid down in their true Latitudes and Longitudes, and the Bearings and Distances of Places thereon accurately enough measured by a particular Method usually taught: But the same being a distorted Representation of the Superficies of the Terrestrial Globe, which, the intelligable enough to Mathematicians, yet is not to Perfors of small Capacities; and there not being any common Scale thereon whereby the Distances of Places, or a Ship's Way, may be measured or laid down as on the Plain Chart, hath caused most Mariners to neglect the fame, and to make use of the Plain Chart only, which they judge more eafy to be used as well as understood. These Globular Charts therefore are designed to represent to the Mariner, in as easy a manner as possible, the Circles of the Terrestrial Globe, and the several Places on the Globe in their due Magnitudes, Latitudes, Longitudes, Pofitions, and Distances from each other, and that as near to the Truth as it is possible for small Portions of a spherical Superficies to be represented on a Plain; near enough for the Use of Mariners. On which Charts the Degrees of Latitude are represented Equal, as they are on the 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 Distances of Places thereon duly repreiented as on the Globe, and the Distances of Places thereon may be easily measured by help of the Graduated 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 Courses thereon, is no more than a Representation of the Mariner's Compass passing over the Surface of the Terrestrial Globe: The Whole is only a following Nature

in the most simple and easy manner, and obvious to the

But on the Terrestrial Globe the Course will be N. 31° 56' Easterly, or N.E. by N. nearest, and the Distance 1414 Miles, z. c. the Course will be represented on the Plain Chart 13° 04' more than it is, and the Distance 283 Miles more than in truth it is. See the Arithmetical Computation.

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represent to the Mariner, in as easy a manner as possible, the Circles of the Terrestrial Globe, and the several Places on the Globe in their due Magnitudes, Latitudes, Longitudes, Pofitions, and Distances from each other, and that as near to the Truth as it is possible for finall Portions of a spherical Superficies to be reprefented on a Plain; near enough for the Use of Mariners. On which Charts the Degrees of Latitude are represented Equal, as they are on the 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 Distances of Places thereon duly reprefented as on the Globe, and the Distances of Places thereon may be eafily measured by help of the Graduated 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 Couries thereon, is no more than a Representation of the Mariner's Compass passing over the Surface of the Terrestrial Globe: The Whole is only a following Nature in the most fimple and easy manner, and obvious to the

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DIRECTIONS

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Mouth of the River of Thames, GREAT BI

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From the Sand call'd the Spitts in the Mouth of the Suffolk, and Norfolk, to Winterton-Ness, and

[N.B. Pilots being always taken to fail up and down the Thames, Spitts on the North-side, and at the Downs on the South.



HE Spitts is a Sand on the North-side of the River, and on the Coast of Essex, between the Entrance into Malden Water West, and Colchester Water East, going down the King's Channel: and being to sail 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 those Sands about the Gunfleet, and the Shore of Essex.

The Buoy of the Spitts lies in shoal Water, so that you must be careful to observe the Tides in going over it into the Wallet: At low Water, there is but five to seven Foot Water, 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, East-North-

The Naze 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-house; tho it is not made use of as such, only as a Sca-mark to know the Naze and other Places. The old Markewage a Farm-House surrounded with



ONS for SAILING

FROM THE

of Thames, round the whole Island of EAT BRITAIN.

PART I.

the Mouth of the River Thames, along the Coast of Essex, erton-Ness, and from thence to the Orkneys in Scotland.

ed down the Thames, we do not take that River into our Work, but begin at the owns on the South. And the same may be observed of all other navigable Rivers.]

North-side of the Essex, between Yater West, and ing down the to sail into Harunds off of Harinto the Wallet. ying within the he Gunsleet, and

ter, so that you g over it into the seven Foot Wa-

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rom the Wallet; its'd upon it for a tho it is not made Naze and other furrounded with

The Flood at Spring-Tides makes into the Harbour from the S. and rifes 2. Fa. at least; at Neap-Tides 10 to 11 Foot.

Sailing from Harwich, or from the Rolling Ground to North, you are to keep the Suffolk Coast on your Larbo dide, generally at the distance of half a League to a League a.

half, as by the following Directions.

Supposing your Ship bound to the N. from the Wallet, as above, or from the Gunfleet. The Buoy of the Gunfleet lies S.E. by E. easterly from the Naze; your Course to the N. is along the S.E. side of the West Rocks in 7 to 8 Fa. Water into the Sledway, keeping Baljey or Baudsy Church N.W. and N.N.W. till you bring Harwich Steeple on the Languard-Fort Brewhouse: Then go away W. keeping Orford Church and Castle open of Balsey Cliff about a Sail's breadth, till Harwich Lights come together. Here you may stand in for Harwich if you please, taking a Pilot as before. But in this Course to go N. you must pass by Balsey Sand; and the Shipwash, which lies without it.

Balfey Sand lies a L. from Shore, stretching in length N.N.E. and S.S.W. To pass by the N. end of it, bring Orford Castle between N. by W. and N.N.W. and Orford Light-house N. & E.



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The Wallet is a clear part of the River lying within the Gunfleet, and between all those Sands about the Gunfleet, and

the Shore of Effex.

The Buoy of the Spitts lies in shoal Water, so that you must be careful to observe the Tides in going over it into the Wallet: At low Water, there is but five to seven Foot Water, 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, East-North-

The Naze 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-house; tho it is not made use of as such, only as a Sea-mark to know the Naze and other The old Mark was a Farm-House surrounded with Trees; but this new Building is fet up by Authority for a Seamark, as above.

The Course is East by North under the Naze, Distance about half a Mile or a Mile; come no nearer, because 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. (1.) Bring Panes Trees, which lie a little to the South of Harwich, open and that with Harwich Cliff, and you run directly for the Bank: Or, keep the Trees on the Cockfand just open of the Nazeland-Point, that will do the same: Or, keep Harwich Steeple on Harwich-Beacon-Cliff, and that carrys you between the Stone Bank and the Land of the Naze: And the fame Mark carries you between the Pye and the Ridge into the Rolling Ground.

The Rolling Ground is a fafe Road, and good anchoring in to 4 Fa. at low Water. Bring Harwich Wind-mill two Sails breadth open of Harwich Cliffs, that gives you the

best 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 keeping the Naze Trees S. W. and the Course N. E. in 5 to 7 Fa. Water.

N. B You are clear of the Cockfand, when you see Harwich Steeple over the Brew-house on the N. of Languard-Fort.

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

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Sailing from Harwich, or from the Rolling Ground to the North, you are to keep the Suffolk Coast on your Larboardfide, generally at the distance of half a League to a League and half, as by the following Directions.

Supposing your Ship bound to the N. from the Wallet, as above, or from the Gunfleet. The Buoy of the Gunfleet lies S.E. by E. easterly from the Naze; your Course to the N. is along the S.E. fide of the West Rocks in 7 to 8 Fa. Water into the Sledway, keeping Baljey or Baudsy Church N.W. and N.N.W. till you bring Harwich Steeple on the Languard-Fort Brewhouse: Then go away W. keeping Orford Church and Castle open of Balsey Cliff about a Sail's breadth, till Harwich Lights come together. Here you may stand in for Harwich if you please, taking a Pilot as before. But in this Course to go N. you must pals by Balfey Sand, and the Shipwalh, which lies without it.

Balfey Sand lies a L. from Shore, stretching in length N.N.E. and S.S.W. To pass by the N. end of it, bring Orford Castle between N. by W. and N.N.W. and Orford Light-house N. \(\frac{1}{2}\) E.

N.B. This End of the Sand lies five Miles from the Shore. and some part of it is dry at low Water.

Shipwash Sand lies without Balsey, and without the IVhiting also: It stretches N. by E. and S. by W. about nine Miles in length, and not above a quarter of a Mile broad, except at the S. end, where 'tis a little broader: Tis dry at low Water in several Places. The Marks for it are thus: For the S. endbring Balfey Church N.W. \(\frac{1}{2}\) W. distance 8 Miles at least: For the N. end, bring Orford Church N.W. and the Light-house N.W. half W.

The Whiting Sand lies N E. by N. and S.W. by S. in length about five to fix Miles. The Marks for the S. end are, Balfey Church bearing W. by S. and W.S.W. for the N. end, Orford Castle bearing N.W. and by N. in 5 Fa. Water.

N. B. There are good Soundings on both fides the Whiting. to that you may go within or without it at pleafure.

In this Course you pass by Woodbridge Haven; it lies just at the W. end of Balfey Cliff: It is a very good Haven, but a difficult and uncertain Bar, with not above three or four Foot Water at low Tide; and the Sand at the Entrance often thifts, so that you may know the Bar at one time, and not find it at The Pilots are always ready at the Cliff to carry another. you in. The Haven, when you are in, runs up to Woodbridge Key 8 or a Miles, very fafe and deep Water: The Water flows at Woodbridge Bar 15 to 16 Foot at Spring-Tides, the Springs flow S. and S. and by E.

There is Hofely Bay within all these Sands, which lies fair for Ships from the N. going into Harwich or Woodbridge. It is a very fecure Road, good clean Ground, and fate anchoring. Ships from Holland, bound in for Harwich, often come to

an Anchor here to wait for the Flood.

From

From the Mouth of the Thames to Hofely Bay you go thro' the Sledway, and thence between Balfey Cliff and Balfey 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-Ness is a low Beach pointing into the Sea E. half a Point N. having two Light-houses on iv. The Ness is not seen far, but the Church and Castle are Marks at a great distance, being seen 6 or 7 Ls to Sea. The Whiting Sand lies right off, but the Passage within is fair and good. There were formerly two small Sands lying between the Ness and the Whiting; but they are worn out, and quite gone: So that now you have deep Water all the way thro; bringing Orford Lighthouses together in one, carries you off to Sea between the Shipwalh Sand and the Aldbro Knaps.

Aldbro' Knaps lies due E. from Aldbro' Church; 'tis a small round Sand distant from the Shore almost 2 Ls, deep Water from 5 to 12 Fa. and without the Sand from 12 to 16 Fa. but upon the Sand not above 2 Fa. to 2 ±. You go clear of this Shoal by

bringing Orford-Church and Castle in one.

Dir Tions for crossing the Mouth of the Thames, from the Spitts to the North Foreland, or to the Downs and Dover Road.

If instead of going to the N.ward, you are bound from the Essex Coast, suppose from Colchester Water or any other Port thereabout, to the Downs, or to the North Foreland.

Being at the Spitts, keep the Shoalings of the Gun-Fleet in 7 to 8 F2. till you bring the Naze Tower N.N.W. then go away N E. by E. and F.N.E. till the Naze Tower bears W. by N; then keep more Easterly till you get into 17 to 18 Fa. that you may go clear of the Long Sand Head and of the Kentish Knock; but keep your Depth, and go no shoaler: then steer S.S.W. if with the Ebb, or S.S.E. and S. by E. or S. as the Tides are strong or weak, and you will soon see the Foreland. The Kentish Knock bears from the Church of St. Peters on the Foreland N.N.E. Easterly: You will see the Foreland from the Kentish Knock, but not from the Long Sand Head, unless the Weather be very clear.

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

If when you are clear of the Gunfleet in 17 Fa, as above, you would not go into the Downs, or to the Foreland, but go away to the W.ward on the back of the Goodwin, you must rhen steer away more Easterly, till you get 26 to 30 Fa. then go away S. or S. by E, keeping the same Depth of Water, till you bring the two South Foreland Lights together, or till

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When the Northerly: 1 come into 2 Shore; then and when the are upon the have but 2 Fa

N. B. Fa. or Leoste

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There are Sandhills at guide Ships Middle: wh

n the Thames Northward.

Leofloff, one on a Hill to the N.ward of the Town, and the other a small one on the low Beach close by the Sea-side.

When these 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 almost close to the Beach; and when the highest Light bears W. by S. from you, then you are upon the Standforth in the shoalest part, where you will have but 2 Fa. to 2 ½ at low Water.

N. B. The Tides do not rife here above one Fa. or one Fa. one Foot. If it below Water,' tis best to anchor in Leostoff Road till the Flood.

There is another Sand call'd by two Names also, viz. the Home and the Corton, but 'tis the same Sand. The Channel is narrow between the Beach and this Sand; but it is very good, and you have the close to the Home. Being over the Standforth, you want between the Home and the Beach clear away to the Roads.

If you meet with Northerly Winds, so as you are oblig'd to turn from Leostoff to the Roads, you must then first stand in towards the Newcom into 4 Fa. Water, then into the Head of the Home in 8 Fa. and then stand over again between Leostoff Beach and the Home towards the Beach in 3 Fa. then again towards the Home into 7 Fa. when you will be over the Standforth; be sure to keep your Lead going in this Passage: but after you are over the Standforth, you have a fair turning Channel into the Roads.

The Haven of *Yarmouth* enters on the S. of the Town, a little above *Corton*; and the enter you must pass St. Nicholas Gat, which is a Channel between Corton Sand and the Knowle.

But as there are always Pilots ready at the Pier to come off, and that no Ships go in without their Assistance, 'tis needless to give Directions here.

Being in the Road: and bound to the Nward by Winterton Nefs, keep close by the Shore to Caster Lights, which are two Lights standing beyond the Town N. near the Sea side. Keep those Lights together all the way, till you come within half a Cable's length of the Beach; and keep so going on by the Beach, till you come off of Winterton, where are two Lights more. Those you must bring together, and keep them in one, to sail out at the Nefs.

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

There are two more Lighthouses beyond Winterton on the Sandhills at the Ness; 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 Lights of Winterton Town

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Tides are firong or weak, and you will foon fee the Foreland. The Kentish Knock bears from the Church of St. Peters on the Foreland N.N.E. Easterly: You will fee the Foreland from the Kentish Knock, but not from the Long Sand Head, unless the Weather be very clear.

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

If when you are clear of the Gunfleet in 17 Fa, as above, you would not go into the Downs, or to the Foreland, but go away to the W.ward on the back of the Goodwin, you must then steer away more Easterly, till you get 26 to 30 Fa. then go away S. or S. by E, keeping the same 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-Nefs, being bound to the Roads, you keep under Shore due N. 4 Miles to Aldbro' Bay, being a stony Beach, deep Water, very good Shoalings: You have also good anchoring before the Town in 5 to 7 Fa. from Orford-Nefs to Leoftoff; the Shore lies N. by E. Here is neither Reef or Ridge, Rock or Sand, but a bold Shore, and Shelter every where in case of hard Weather

Sole, Swole, or Southwould Bay in a this Space, famous in Story for a great Sea Engagement between the English and Dutch. A little S. of Swole goes in a Creek, which divides as foon as you are over the Bar into three: the N. Branch runs by the Town of Swole, the S. Branch to Dunwich, and the middle which is the best to Walders Wyck. This Creek receives small Vessels only: 'Tis distant from Orford-Nessal.

Steering from Sonthwould to Leosloff, you must be sure to keep without a small Sand with two Names, call'd the Bernard and Newcom, tho they are but one and the same Sand. Small Vessels in good Weather and at high Water may go within; it lies but a little Mile from the Shore: it runs from Caty Ness 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 should keep off in 4 to 5 Fa. at least.

North from the Knaps, and S E. from Leofloff, 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 Ls 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 shoalest part of the Sand. It bears from Swole N.E. by E. and from Gunton Wood S.S.E.

Between Leofloff and the Roads is a Sand they call the Standforth, or Standford, being as it were the first of the Sands which makes those Deeps they call Tarmouth Roads. To pass in there, you are to observe, that there are two Lighthouses at

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There are two more Lighthouses beyond Winterton on the Sandhills 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 Lights of Winterton Town are high, and feen 4 or 5 Ls off at Sea. Winterton Steeple is a high square Tower, and is also seen far at Sca.

N. B. The Tides flow at Winterton not above 6 or 7 Foot, and make half Tides on the Shore; for it runs in at the Ness three hours after it is high Water off shoar. Note, It is very narrow turning in and out at the Ness.

If you are bound to the N.ward, and minded not to go thro?

the Roads, take the following short Directions.

Being off of Leofloff, 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. Also the Southermost part of Tarmouth Sands is the Home Head against Leostoff, and the Northermost is the Middle at Winterton Ness. The Home and Corton are one Sand, the next is the Knowle; all which are one Sand. There are small Swatches over them, which are made use of by the Fishermen, 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 these Sands are dry at low Water: Being on the back of the Sands, you may keep 4 or 5 Miles from the Shore of Tarmouth in from 12 to 16 Fa. Water, which will carry you between Tarmouth Sands, and the Newark Sand.

The Banks which lie off from Winterton and beyond the Leman Ore, are called the Well-bank, the White-water Bank, and the Dogger Bank. As they lie all over towards the Coast of Holland, and have no where less than 10 Fa. Water on them at low Water, they are needless to be described as on our Coast; there being also no danger of Ships milearrying upon

them for want of Water.

The rest of the Sands call'd in general Tarmouth Sands, and which make Tarmouth Roads, are four, the Newark, the Overfalls of Newark, Husbro' or the Urrey, and the Leman Ore, or the Leman and Ore.

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

Directions for Sailing from the

mouth Steeple E. half N. 3 Ls. and the N.E. end bears N.E. half E. from the same Steeple, and E. half N. from Winterton Light, dist. about 2 Ls. and a half. There is a broad Channel between Tarmouth Sands and the Newark, the narrowest place being between the N.end of Newark and the Calves Knowle, which is 4 Miles, and 16 to 18 Fa. between them. This Sand commonly shews it self by the Sea breaking on it at high Water; it lieth N.W. by N. about 4 or 5 Miles long: and beyond lie those dangerous places which they call the Overfalls of Newark.

They lie N.E. from the N.end of Newark, stretching still farther N.E; having at one place, which is the middle, but 3 Fa. and so deepens towards each end to 7 and 8 Fa. You have 19 and 20 Fa. Water close to them: They lie from the Lights of Winterton 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.

Hascbro', or the Vrrey, is a Sand that lieth 8 Miles from Winterton Ness, 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 end beareth from Winterton Church N.E. by N.8 Miles, and the S.end beareth from Hasborough Church N.E. half N. about 6 Miles off. This Sand is steep too, having 20 and 21 Fa. close by it on the inside and outside; but the ends lie

off shoal, 4 to 7 Fa-

The Leman and Oar, or Ower, are two very dangerous Sands; on the first of which the Glocester Frigate was lost: This is the innermost, and is the longest of the two; it is called the Leman, the Body of which lieth from Hafebrough N.E. by E. about 8 or 9 Ls. This Sand lieth in length N.W. by N. about 6 Miles, and at low Water hath not above 6 to 8 Foot Water. This Sand also is steep too, having 22 Fa. close The Ower lieth 2 or 3 Miles without the Leman, N.W. by W. about 3 Miles; on which is 9 Foot at low Water, and is steep too, having 22 Fa. on each side of it, and 22 Fa. between the two Sands. At the ends of the Ower you will have 3 to 7 Fa. a Cable's length off, and then 15 to 22 Fa. If you keep a fair fight of the Land you will run within it; for I could not see the Land from the Masthead of a Yacht, when I rid at anchor close by the Leman; but being at anchor 3 or 4 Miles within the Leman, I faw the Church and Land of Hasebrough. The distance between this Sand of the Leman and Hasebrough Sand is 6 Ls. and the depth between them 19 to 22 Fa. so 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 Ower, which however is needful to be known for many Reasons, yet is not shoal enough to do any hurt; and this is call'd Well Rank. The S.E. part of it bears from Winterton Ness N.E. about 14 Ls. The N.W. part of it bears N. by E. 17 Ls. and 3 from the Leman and Ower; it lieth N.E. and S.W. about 21 Ls. in length, and in breadth N.W. and S.E. 12 Ls. at least, at the S.W.

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the great Steeple comes on with another smaller Steeple, you will see the first Buoy of the Channel at the S.end of the Yole and Piper, a Sand on the W.side of the Channel: The sair way is between the Buoys, but far in 'tis dry at low Water; yet 'tis a place of much Trade and Shipping for Corn and Coal.

Three Ls. to the Westward lies Wells, another Port for Corn. Between them, running along the Shore, lies the Sand called the Pole and Piper (as above) there is also a Shoal just off the Entrance into the Channel of Wells, without any Name; it runs far out into the Sea: the Channel goes in at the W. end of this Sand, and the Beacons which you fail by and guide into the Haven, are on the outer edge of the Piper. When Hobroom bears E.S.E. from you and the Trees stand against the Steeple, then you are in the fair way or Channel. This also is a Tide Haven; nor is there any very good Road without.

Two Ls. beyond Wells is Burnham, another Tide Haven. In the Midway lies Burnham Flates, 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 hereabout, 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 keep the Lead going; on the inner fide 'tis steep and dangerous. As soon as you are over it, you have 7 to 12 Fa. and the Channel within is safe from Easterly Winds, which are the worst on this Coast. If you would go into Burnham, come to an anchor here, and take a Pilot.

Here and at Wells they take Pilots also for Lyn, Boston, and Spalding, which are all such difficult Channels, that very few Ships venture in without Pilots.

From Burnham the next Place is Chapel Land W.S.W., distance 5 Ls. Between them is a Sand call'd the Woolpack, lying E. and W. about a Mile from the Shore: 'Tis best keeping without it: There is a Buoy on the outer Edge of the Sand. There is also a Light-house at Chapel, but no Harbour to the Northward. Off of this Point lies a Sand call'd the Sunk, distance from the Point 2 Ls. It lies dry at low Water, and there is a good Channel either within or without.

N.B. Here begins the Entrance into the Channels call'd Lyn Deeps; and here also Pilots are taken for carrying Ships up either to Lyn or Spalding, Wisheels, or Boston; Which being sufficient, we need not describe these Channels and Sands, which are almost numberless.

From the Coast of Norfolk to the Coast of Lincolnshire, leaving Lyn and Boston Deep to the S.W. and S.W. by W the first Land you make is the high Grounds within Leger Ness. From whence to the Mouth of the Humber is 7 Ls. the Course N.N.W. In the way, about a L. short of Humber, is Salt-fleet Haven; and a little to the Southward of Sandfleet is a Spire Steeple call'd Wilgrip. Thwart of Sandfleet, a little to the Northward of the Spire, is a Sand call'd Sand

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The Dogger Bank lieth between the Well Bank and the Broad Fourteens, stretching over to the Coast of Holland; so that it is out of our way here. It lieth N.E. and S.W. about 10 Ls. in length, whereon is 16 Fa. and is distant from the Well Bank 5 Ls. But I say this is quite off of our Coast, so I return

to the Land.

From Winterton Nefs the Land falls away W.N.W. and then W. till you come into the Channels of Lyn, Spalding and Rofton, which are called the Deeps: This is a very dangerous Place, and has been a fatal Coast, especially to Ships bound from the North, and deep loaden, as the Colliers generally are, here being no good Harbours in case of a hard Gale of Wind; and as they are embay'd on every side, if the Wind blows from the Sea, unless their Ground Tackle be very good, and they can ride it out, there is no Relief but to run in West for Lyn Deep, which is very difficult, especially in the Night, or to go on Shore, which is almost as bad as Death.

From Winterton the next Point is Hasebro'; the Course is N.W. dist. 3 Ls. and then the Land salling off Westerly, the next Point is Cromer, the Course W. by N. and W.N.W. dist. 4 Ls.

The Shore begins here to lie flat off a great way.

From Cromer to Blackeny the Course is W.N.W. 4 Ls. from thence to Wells W. by N. 3 Ls. and thence to Burnham, the I and still falling away more, the Course is W. and by S. 2 Ls.

There is a Place called Mockbeggers Hall, midway between Il interton and Hafebro'; off of which, not far from the Shore; hes a Flat, over which no Ship can fail. Between this Flat 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 same Channel, distance from Cromer as above. Blakeny has a high Tower Steeple, which bring S.E. and run into 5 Fa. Water, till you've the Buoys. When

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From the Coast of Norfolk to the Coast of Lincolnshire, leaving Lyn and Boston Deep to the S.W. and S.W. by W. the first Land you make is the high Grounds within Leger Nefs. From whence to the Mouth of the Humber is 7 Ls. the Course N.N.W. In the way, about a L. short of Humber, is Salt-fleet Haven; and a little to the Southward of Sandsleet is a Spire Steeple call'd Wilgrip. Thwart of Sandsleet, a little to the Northward of the Spire, is a Sand call'd Sand Hail; 'tis about a Mile from the Shore: At low Water 'tis almost dry, but not quite: You may, if driven to it by necessity, go within the Sand, but 'tis not advisable.

Close to the Hail Southward is a Sand call'd the Rose, which bends out into the Sea a good way E.S.E. so that if a Ship bound from Cromer to the Humber, or towards the Spurn Head, should be drawn in to the Westward, by the Force of the Indrast of the Tide towards Lyn Flats, as is mention'd above, they may be in danger of falling upon the Tail of the Rose, and be sast a-ground. It is a broad Sand, and lies off of

Wilgrip due East.

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, distance 1 L. and this League distance makes the fine Turning-Channel up the Humber, having 10 to 11 Fa. Water at the lowest Ebb. On the inner side, viz. to the Westward of the Bull, is a Sand stretching from Cly Ness, a Point of Land to the S. of Grimsby, opposite to the N.W. end of the Bull: And this makes a Channel that runs S. to Homerston, having 3 Fa. at low Water; and the Sand stretches 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 Humber, and into Hull, or farther up into the Ouse to York, or into the Trent to Gainsborough, or into the Air to Selby, and any other Places as your Occasions require. There is a great Indust in the Mouth of the Humber, the Tide therefore is very violent.

If you are bound out of the Humber, or from Grimsby, you must take great care to avoid a Sand grown up within a few Years past near the Spurn Head: Its Name is enough to warn you, 'tis call'd the Dreadful, and several Ships were lost on it before it was thorowly known. The Danger is now lessen'd by two Light-houses being set up on the Spurn, by Order of the Trinity-house of Hull, who caus'd the Sand also to be perfectly survey'd.

The Town of Kilnsea bears N.W. W. from the S. point of it; the high Land on Durlington bears N.W. by N. and the two Light-houses on the Spurn bear W. by N. from it, distance 4 Miles. In order to go clear of the S. end of the Sand, bring Essington Steeple and the Mill behind it, into one.

The S. end of the *Dreadful* has but 7 Foot Water at low-Water, and is steep too, having 6 Fa. close by it; which makes running upon it truly dreadful; for the Head of a Ship shall be a-ground, and the Stern a-float in 6 Fa. Water. The Sand lies N.E. by N. and S.W. by S. about a Mile and half in length. Between the Sand and the Shore you have from 5 to

9 Fa. both ways,

There is another new Sand discover'd without the Humber's Mouth, and within the Dreadful: It was survey'd by the Trinity Men of Hull in July 1713. 'Tis distant from the Dreadful about 2 Miles N.W. and bears from the Spurn Lights E. by S. Half S. Kilnsea Church bearing from it N.W. by N. It stretches 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 shoaling to the Main; and between it and the Dreadful another with 7 to 8 Fa.

If you are within these Sands, and on the W. side of the Spurn Head, and lie for a Wind, or are intending to go up the Humber, or over to the other Coast, you edge to the Northward, where you may ride well with a N.E. or E.N.E. Wind, or steer away W. and by N. towards the Bull Sand, keeping in 7 to 8 Fa. and from thence keeping the thwart Mark of the Buoys in view, which is a House upon the W. end of Clay Ness Chiff; and with that 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 Humber from Foul Ness, or the Well, keep Patrington Spire a Sail's breadth open of the Spurn Head, and steer in with that Mark till you come to Burcom Beacon; then the Course is N.N.W. but, as above, you may

make Signals for a Pilor.

There are some Shoals and Oversalls 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 also a dangerous Shoal in the Channel it self, call'd the Silver Pits, lying thwart the Buoy of the Bull: To avoid which you must keep the S. side of the Channel; and to go clear of it, you must steer from the Buoy of Clay Ness to the Buoy of Burcom, leaving them both on the Larboard-side going up, and on the Starboard-side coming down.

N. B. There was a Newcastle Collier lost on that Sand, tho she drew not above 13 Foot Water.

N. B. In this Channel before the Humber, an E.N.E. and a W.S.W. Moon make full Sea.

N. B. From Cromer, and Blackney, or Foul Nefs, on the Coast of Norfolk, to the Spurn and Flambrough Head, the Flood sets S.E. and the Ebb sets N.W.

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Name on Shore, with a finall Pier: You may lie within the Pier, but 'tis dry at low Water.

N.W. from Flamborough is Scarborough, distant 5 Ls. To the southward of the Cassle is a fair Sandy Bay, where is a good Road, and a Pier belonging to the Town, and a little Pier within that: But the Ships lie dry in both at low Water; the Road without this Pier is good ('tis call'd Scarborough Wyck) and here is very good riding in 4 to 7 Fa. the Spring-Tides rising 13 Foot. The Land is high on all this Shore from Flambrough Head to Whithy, and on to the Tees Mouth.

Between Scarborough and Whithy is Robin Hood's Bay, where is good anchoring in 6 to 8 Fa. But 'tis a bad Road for

easterly Winds.

Whithy is a Tide-Haven too; good Ships may go in at high Water, and lie dry at low Water. There are Pilots to carry you in clear of the Rock, which lies off of the Bar; fo I need guide you to the Entrance only: The Mark to go in is to bring Whithy Church Steeple open to the northward of the S. Point of the Haven.

From Whithy the Land upon the Coast lies very high, trending away W.N.W. and W. by N. The first high Land is call'd Huntly Foot, or Hunt Cliff Foot, being a high Cliff close to the Sea, distance from Whithy 3 Ls. to the W. and 4 Ls. to

the Eastward of the Tees.

Next to Huntly Foot is Red Cliff, distinguished by its Colour, from whence it has the Name of Red: This Red Cliff and Hartle Pool make the Mouth of Tees, at least the Tees comes in between them. Close to the southward of the Mouth of Tees lie three Ledges of Rocks called the Salt Scarrs, stretching into the Sea E.N.E. a Mile and half: They are very soul and dangerous, but are dry at low Water. On the S. side they are so steep that sounding 12 13 to 14 Fa. you shall be upon them before you can heave the Lead again; but on the N. side they have good Shoalings.

Between Hartle Pool and the Tees lies another dangerous Rock, call'd the Long Scarrs, near the Shore. Come no

nearer to it then 5 to 6 Fa.

About 2 Ls. up the River is the Town of Stockton, a good Port, and a place of Business. There are Pilots also to carry you up to the Town, which is difficult to Strangers, the Freshes being sometimes very strong here. The Town stands on a Point, lying out like an Island; the Harbour is in a Bite, to the southward of the Town.

Hartle Pool lies N.W. from Whithy, distance 7 Ls. There is a Stone Pier or Head very secure for Vessels when they are in, but 'tis dry at low Water. The Direction for the Pier is very short; there is a Beacon at the Entrance; leave it on the Starboard side, (to avoid some Rocks which lie 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 call'd the Gamble, which you will avoid by keeping as near the Pier 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 stands on a Penintula, which runs out far castward into the Sea; and

make Signas for a Pilot.

There are some 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 also a dangerous Shoal in the Channel it self, call'd the Silver Pits, lying thwart the Buoy of the Bull: To avoid which you must keep the S. side of the Channel; and to go clear of it, you must sleer from the Buoy of Clay Ness to the Buoy of Burcom, leaving them both on the Larboard-side going up, and on the Starboard-side coming down.

N. B. There was a Newcastle Collier lost on that Sand, tho she drew not above 13 Foot Water.

N. B. In this Channel before the Humber, an E.N.E. and a W.S.W. Moon make full Sea.

N. B. From Cromer, and Blackney, or Foul Nefs, on the Coast of Norfolk, to the Spurn and Flambrough Head, the Flood sets S.E. and the Ebb sets N.W.

Being off of Foul Nefs, and bound to the N. to the Spurn, or Flamborough Head, as above, you must steer according as you have the Tide, and of which you must be very watchful; for there is a great Indrast in the Bay on the Coast of Lincolnstice, and the Flood sets very strong into Lyn and Boston Deeps: When you are open with them, the Flood sets in S.E. and the Ebb sets out NW.

When you have made the Spurn, keeping but off from being embay'd, you have nothing to hurt you between Foul Nefs and the Head. From thence to Flamborough the Course is N. by W. a bold and clear Shore, distance 9 Ls. There is a

good Light-house upon Flumborough Head.

On the S. fide of the Head under the Hills, lies Burlington or Bridlington: There is very good anchoring in the Bay, and clean Ground well fecured from most Winds; for there is Smythick Sand to secure it from the Winds off Sea, and Flamborough Hills for the Winds off Shore. The N. end of this Sand lies S.S.W. from the Head, distance 2 Miles: And between the Sand and the Head is good Ground in 7 to 9 Fa. and the like just before the Town. The S. end bears from Burlington Key S.E. by E. distance 1 L. The shoalest of the Sand bears S.E. by E. and E.S.E. from the Key. Here also is very good anchoring in 4 to 6 Fa at low Water, and very good going in or out at the W. end of the Sand; and you may stand in to the Shore in what Depth you please. Burlington Key is a Tide Haven, dry at low Water: The Spring-Tides rise 2 Fa. or thereabout.

Three Leagues from Flamborough Head is Filey Brigg, which is not a Bridge, as the Word feems to suppose, but a Ledge of Rocks, and should have been call'd (as 'tis believ'd it was originally) Filey Rigg or Ridge, for so they call a Ridge in their northern Dialect: They lie stretching out into the Sea N by W. from Flamborough Head, but S.E. by E. from the Land: There is good anchoring within the Rocks in 5 Fa. being safe from northerly Winds. There is a Town of the same

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Filey Brigg, uppose, but a 'tis believ'd it v call a Ridge at into the Sea E. from the ks in 5 Fa. ben of the fame rons Rock, call'd the Long Scarrs, near the Shore. Come no nearer to it then 5 to 6 Fa.

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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 stands on a Peninfula, which runs out far eastward into the Sea; 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 Boat: The first is the largest, and appears above Water like a Ship lying in the Water bottom up; the other is 2 Fa. under Water at low Water.

The next Port N. from Hartle Pool is Sunderland, distance It is a Barr'd-Port and a Tide-Haven; and therefore the larger Colli take in their Coals without the Bar. Here ing for Coals, and the Colliery is fo great, is a very great and the Coal-Pits to many upon the River Wear, which comes in here from Durham, Lumley, and other Parts, that they fay, if the Port was able to receive great Ships, there would be more Coals loaden here than at Newcastle : But there is but 2 Foot at low Water in the Haven, and but 12 at high Water; to that the Keels which bring the Coals, are oblig'd to go over the Bar into the Road, where fometimes they are loft, and often in danger, having neither Sail or Rudder, and lying 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 fouthward of the Bar, and must be carefully avoided: To go clear of it, keep Whitborn Church open to the eastward, with the Humock upon the Cliff, and that carrys you without it.

North from Sunderland is Tinmouth, distance 7 Miles: The Name directs us to know that 'tis the Mouth of the River Just at the Entrance, and on the N. Point, stands the Castle and a Light-house. It is a Barr'd-Port, and the Entrance difficult, as the Winds and Tide may happen: Yet there is 2 F. at low Water, and 3 i at high Water: So that the Tide rifes here 14 Foot at least; whereas at Sunderland it rifes but .o Foot: The Difference is occasion'd by the Indrast of

Directions for Sailing from the Th

the River Tine, where the Tide runs very strong in, and goes

far up.

Besides the high Light-house upon Tinmouth Castle, there are two other Light-houses within the Bar, on the same N. Shore of the River: They are leading Marks also for going over the Bar. The N. Shore of the Entrance is rocky and stony: And on the S. side 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 South Shields, and the River likewise, all the way up to Newcastle: So that 1000 Sail of Ships may lie and load in the River at a time, with the greatest Security.

About a Mile N. from *Tinmouth* is a finall artificial Haven, made by Hands, call'd *Cullercoats*; 'tis made for loading Coals and Salt, and is of no other importance: 'Tis a Tide-Haven, and the Entrance lies among feveral Rocks; but 'tis mark'd or directed by Beacons known to those that use the Place, and needless to others; for 'tis a Port only belonging to private Hands, for the Use of some Colliereys adjoining.

The Coast from hence goes still away due N. for near 40 Miles: In that length you have several small Portsor Creeks, and Havens, mostly us'd for loading Coals and Salt; as first Seaton, or Seaton Sluice, distance from Tinmouth 5 Miles: 'Tis a small 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 Coquet, distance from Seaton 1 L. The Entrace to this Place is difficult; but the Fishermen are all Pilots, and will guide any Ship in, the Channel being all beacon'd.

N. B. The Pilot Books must be strangely erroneous here, which may endanger any Vessel if the Master is not acquainted, and does not take a Pilot: For they say expressly, there is 6 Foot Water in the Entrance at low Water; whereas I have rode over the Entrance at low Water several times, and not been up to the Horse's Belly.

Also they say there is 16 Fa. at high Water, and but 6 Foot at low Water; which cannot be true: And yet the Words sixteen Fathoms are twice repeated. This I note for the Sasety of Strangers that may be bound in. The truth of the Case is thus, That at the Key there is 16 Foot Water at the Top of the Springs, and 2 Foot to 2½ at low Water, between the Beacons at the Entrance.

There is a good Key within the Bar for the loading of Coals, but no Town nor any Navigation farther up, except for small Boats, Keels, and Fishing Vessels.

Some Rocks lie E. from Blith, about a Mile off in the

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g from the Thames Northward.

N. B. The Tide flows to the Southward in the Offing, till it is two hours or two and a half Ebb a Shore.

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

This Harbour, tho so far North, is oftentimes a Shelter to the Colliers Ships bound from London to Newcastle, 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 Island.

Also the Russia and Greenland Ships, after enduring long S.W. Winds, often put in here. Here is a good Convenience to haul on Shore, stop Leaks, careen, wash and tallow, &c.

There are four feveral ways to go in or out of this Harbour; but the broadest and best Channel is between the Staples and the Goulston: The Staples are described above. The Goulston, or Goldston, is a small 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 *Plough*; 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* lies E. from the Castle on *Holy Island*, distance about half a Mile.

The Harbour is barr'd, but there is 9 Foot Water upon the Bar at low Water, and there is a good Road, the Castle bearing N.E. where you may ride in 4 to 5 Fa. till the Tide serves to carry you into the Harbour. You may take a Pilot to carry in the Ship, or observe this Direction: You see a Ledge of Rocks called the Stone Ridge on one side, and another called the Partner Still on the other: Bring the old Church on the Island to bear N.W. and get the Soundings of the Stone Ridge, which is the bolder side, and keep close to them, and you are in the fair way, and the best of the Channel into the Harbour. You have 4 Fa. Water upon the Bar, at high Water Spring Tides.

N.W. by W. from Holy Island is the Port and Town of Berwick upon Tweed, distance 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. so that you have 25 Foot at high Water, which is enough for Ships of good Burden. Also when you are in the Harbour, it is very good, and you go close up to the Key.

N. B. Here is no Navigation beyond the Town, notwithstanding the Tweed is so great a River: for within slittle more than a Mile from the Bar, is the great Stone

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There is a good Key within the Bar for the loading of Coals, but no Town nor any Navigation farther up, except for small Boats, Keels, and Fishing Vessels.

Some Rocks lie E. from Blith, about a Mile off in the Sea; they are feen above Water the last quarter Ebb. They bear N. by E. from Seaton. They who fail along Shore ought to be very careful of these Rocks. The Flood here sets away S.E. by S. and the Spring Flood rises almost 3 Fa. but ordinarily 16 Foot.

Cocket Island lies 6 Ls. from Tinmouth Castle, and above a Mile off Shore; it is a good Road for southerly Winds: From the South end of the Island 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. side is bold, only from the N.W. part of the Island lie off some Rocks about half a Mile into the Sca. Small Vessels may bring the Island S. and anchor in 3 or 4 Fa. but greater Ships must bring the Island S.E. and anchor in 5 Fa. at low Water. The Road is clean Sand.

From Cocket Island the Shore goes away N.W. to Aylemouth and Warkworth Castle. There is a Creek where the River Ayle empties into the Sea, but no Harbour. There is good anchoring in the Road in 5 to 9 Fa. From Warkworth the Shore turns again N. to the Staples, and Firm or Fern Island: Thete are several uninhabited Islands lying E, from the Shore, the outmost of them distant 5 or 6 Miles, and many Rocks They are N. by W. from Cocket about them very dangerous. dist. 6 Ls. Between the 1sle of Firm and the Main is a good Channel a Mile and half broad, and very good anchoring off of Bambro' Castle, where you are safe from an E. or N.E. Wind; but 'tis open to the S.E. 'tis called Scate Road. There is a Light-house on the Fern Island, but 'tis used only as a Seamark: The Staples lie a Mile without the Fern N.E. and are rather a Ledge of great Rocks than Islands: You have 24 Fa. Water within half a Cable's length from them, and 30 Fa. within a Mile.

If you are bound N. from the Cocket, or from Tinmouth, keep in 38 to 40 Fa. and the Depth will carry you at least 3 Ls. to 4 Ls. clear of the Staples. All this Course you see the Chevior Hills, far within the Shore; which are so exceeding high, that they are seen 8 Ls. to Sea or more, and are a sure Guide to know the Coast by.

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N.W. by W. from Holy Island is the Port and Town of Berwick upon Tweed, distance 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 rise here full 3 Fa. so that you have 25 Foot at high Water, which is enough for Ships of good Burden. Also when you are in the Harbour, it is very good, and you go close up to the Key.

N. B. Here is no Navigation beyond the Town, notwithstanding the Tweed is so great a River: for within little more than a Mile from the Bar, is the great Stone Bridge over the River, the largest Bridge in Europe so near the Sea.

From Berwick the Course lies N.W. by N. to St. Tabbs Head (called so from Couldingham Abbey) distance 5 Ls. Between them is a small Port called Heymouth, formerly of note for French Squadrons landing Forces for the Succour of the Scots in their Wars with England, but now of use only for Fishing Vessels and other small Crast.

Between St. Tabbs Head and the Bass is the Port of Dunbar. But the the Town is a Royal Burgh, and has a considerable Trade, yet the Haven is but small and among the Rocks; and is of use chiefly for their Fishing Boats and other small Vessels.

From St. Tabbs Head, the Shore still falling off West, lies the Isle of Bass, distant 4 Ls; the Course is W.N.W. The Bass on the South, and the May on the North, make the Entrance into the Firth or Frith of Edinburgh. The Bass is a high round Rock in the Sea; 'tis not inhabited now, tho formerly it had a Fortification, and a House, which is now demolish'd: 'Tis a good Mark to know the Firth by, for it is seen a great way off at Sea: 'tis about a large Mile from the Shore, and is steep too all round it. Also you have 15 Fa. Water in the Channel between the Island and the Main.

The May bears N.N.E. Eafterly from the Bass, distance 7 Miles: 'tis larger than the Bass, but not so high. This Island is also uninhabited except by one Man or Family, who dwells there to tend the Light-house, which is very high and well serv'd: this Light is seen 6 Ls. off.

Bringing this Lighthouse to bear from you W.S.W. you may anchor to the Eastward of the Island; when if your Anchor should not hold, you will duly drive into deep Water. Also you may anchor on the West side of the May in 15 to 16 Fa. Between the May and the South Shore of Fife is a large Channel and deep Water, which all Ships go thro', bound from Leith Road to the North.

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3 Ls. Chehigh, ide to N. B. Here the Squadron of French Men of War rode, when having the Pretender on board they defigned an Invalion in his favour, and when having notice of the British Squadron being in the Mouth of the Firth off of Dunbar, they stood away North thro' this Channel to make their Eleape.

If you are bound up the Firth to Leith Road, the Course from the May is W.S.W. to Inch Keith, an Island opposite to Leith, distance 7 Ls. and from Inch Keith to Leith S.S.W. 1 L. As also 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 general Rule for the whole Firth below Leith, that wherever you anchor in less than 12 Fa. you have good clean Ground

Leith is a Tide-Haven, as all the Havens in the Firth are, where the Ships lie dry at low Water. They that go in here must enter with the Flood, or on the top of high Water, leaving the Beacon which is at low Water Mark on the Larboard side; and stand right in for the Pier Heads. The Tide slows

13 Foot between the Heads at Spring Tides, but ebbs out half a Mile from the Heads; fo that it flows at least 16 to 17 Foot in the Offing.

From Letth Road to the Queens Ferry the Course is W. by S. keeping the S. Shore on board, and steering between the Isle of Cramond and the Rock-Muckgry: Then go away W.N.W. till you open the Queens 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 Miles, and then immediately widening again to 4 and 5 Miles, and continuing that breadth for 2 or 3 Ls. as high as Alliway, and with deep Water allo, frequently makes a great Indraft of Water; and that causes a very strong Tide at the Ferry, where there is an Island in the middle, which yet straitens the Channel more.

Above the Island, and in the very narrow Passage of the Ferry, is a funk Rock; the Top of it may be seen above Water at \(\frac{1}{2} \) Ebb: Close to which Rock, and in most part of the Channel, is from 30 to 36, to 40 and 45 Fa. Water.

If you are bound thro' here, and are going up to Borowstoness, or Alloway, Pilots are always to be had at the Ferry, or at Innerketthing, 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 Firth is full of finall Towns on either fide, between Innerkeithin and the May and the Bass; at most of which there are small Tide-Havens or Pier-Heads, as at Innerkeithin, Brunt-Island, Kinghorn, Kirkaldie, Dysert, Weems, Methel, Leven, Anstruther, Creill, Pittenweems, Presson Pans, Port Seaton, Fisheraw, Cockenie, &c. But there are no Shoals or Sands on either Shore, only that all the Shore from Leith to Muslehro' is flat a great way off; so that in some Places the Tide ebbs above a Mile out. There is very good anchoring in the Bay off of Port Seaton in 5 to 8 Fa.

Harbour; but finall Bite in the afhore in it what Fishing Season is choring in St. but not otherw

One L and from the Carr a red Sandhill, two Light-houf into the River which is the N a Mile and h is the S. Sand. S. fide of the 1 low Water. Be the River Tay, is but 3 Fa. Wa the River Tay, or N. half W. W. the high deck'd ty, which is a ble's length of Fa. Water: Th ing above Call. void the Newe Broughty, and or 6 Fa. Water and fafe Road

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Harbour; but when you come into it, itis no more than a finall Bite in the hollow of the Shore: The Fishing Boats lie ashore in it when Fishing is over, and shelter in it also in the Fishing Scason in case of bad Weather. There is very good anchoring in St. Andrews Bay, when the Winds are off Shore, 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 a red Sandbill, called Bokannis, or Botonnas, on which stand two Light-houses by the Shore; being a leading Mark to fail by into the River Tay. You go 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 from Bockannais fide; the other, which is the S. Sand, is called Avertie, and lies off from the S. fide of the River E.N.E. two Miles and a half, and dries at low Water. Between these two Sandheads is the going into the River Tay, which are a Mile alunder without; and there is but 3 Fa. Water from Sandhead to Sandhead. To fail into the River Tay, bring the highest part of Bukannais Hill N.W. or N. half W. Westerly, or the Lights together, till you bring the high deck'd Hill, call'd Dundee-Law, just over Castle Broughty, which is a leading Mark in. You may fail within a Cable's length of the low Light by the Water fide, having 6 or auFa. Water: Then fail up half West, and half Southerly. Being above Caftle Broughty, keep nearest the N. Shore, to avoid the Newcome Sand that lies on the S. Shore above Castle Broughty, and then anchor before the Town of Dundee in 5 or 6 Fa. Water; 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 Dundee.

If you should sail into this River when it bloweth hard and the Sea high, take 2 or 3 hours Flood with you, more or less, according as your Ship is in Burden; and be fure to keep a good Head-fail: but if you should go in with a Tide of Ebb, and a great Sea, it is very frightful and dangerous for laden Ships, all

the Channel being of a Breach.

From the River Tay to the Red Head, the Course is N.E. by N. about 3 Ls. A Mile Westward of the Red Head is the Town and Pier of Arbroth, 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 Montrose, diffance 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 these 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 the Wind blows hard off Sea, and the Ebb is running stronger out, the Mouth of the River is all of a

From Montrofe to the Todhead the Course is N.E. diltance 4 Ls. All the way between both is good riding, if the Winds are off Shore; but if otherwise the Seagnes high, and makes a faul refry, where there is an mand in the baddle, which yet trialeens the Channel more.

Above the Island, and in the very narrow Passage of the Ferry, is a sunk Rock; the Top of it may be seen above Water at 1 Ebb: Close to which Rock, and in most part of the Channel, is from 30 to 36, to 40 and 45 Fa. Water.

If you are bound thro here, and are going up to Borowstoness, 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 Firth is full of finall Towns on either fide, between Innerkeithin and the May and the Bass; at most of which there are small Tide-Havens or Pier-Heads, as at Innerkeithin, Brunt-Island, Kinghorn, Kirkaldie, Dysert, Weems, Methel, Leven, Anstruther, Creill, Pittenweems, Presson-Pans, Port Scaton, Fisheraw, Cockenie, &c. But there are no Shoals or Sands on either Shore, only that all the Shore from Leith to Muslebro' is flat a great way off; so that in some Places the Tide ebbs above a Mile out. 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 side, is called Fiseness, being the Southermost Point of the County of Fise, and a L. distant from the Island May.

E. N.E. from this Point, and distance one Mile to Seaward, lies the Carr. These are a Ledge of very great Rocks, which lie mostly under Water, only the outward Rock drieth the last quarter Ebb; the others are only seen at low Water, at Spring Tides. Keep 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 15 or 16 Fa. Water. If you lie to the Northward of it, you will have 15, 16, and 17 Fa. and if to the Southward, you will have 22 to 24.

N.E. half N. from Fifencys, lies another great and very dangerous Rock, mostly under Water, except at the last quarter Ebb; it is called *Inch Cape*, the word *Inch* in that Country signifying an Island. From the Mouth of the River Tay it bears E. half S. distance 4 Ls, and from the Red Head S.E. 3 \frac{1}{2} Ls, and from the Light-house on the May N.N.E. 6 Ls.

Bringing the Isle of Bass in one with the May, carries you just on the Edge of the Rock; but the Bass on the East part of the May carries you clear. It is bold, and you have 18 to 22 Fath, within a Mile of it, except just on the S.W. side of it, where there is but 4 and 5 Fa. a Mile off: The Rock it self is about a Mile long, and a Cable's length broad. The Flood runs over it S.W. and the Ebb N.E. and the Sea breaks upon it with great Violence, with a S.E. or N.E. Wind; but the greatest danger is in smooth Water, and near the top of the Tides.

N. from Fifeness, and between the Ness and the Mouth or Firth of Tay, is St. Andrews Bay: In the bottom of the Bay is the Town or City of St. Andrews, close upon the Shore: There is a small Tide Haven with a Stone Pier, where is not above 10 to 11 Foot Water at high Spring Tides, and 7 or 8 at Neap Tides. Two Miles to the Northward of this Port is an Inlet called Eden: at high Water it shows from the Sea like a

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From Montrose to the Todhead the Course is N.E. distance 4. Ls. All the way between both is good riding, if the Winds are off Shore; but if otherwise the Sea goes high, and makes a soul Shore. From hence, steering still N.E. Easterly on the N. side of a small Bay, is Dounsit, distance 2 Ls; the Bay is called by the same 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 Water, but lies dry at low Water. From hence to Girdle Ness the Course is N.N E. half E. distance 4 Ls; and a little beyond the Ness is the Entrance into Aberdeen.

There is very good anchoring in the Bay in 7 to 9 Fa. bringing the Point of Girdleness 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 Aberdeen from the new. The Entrance into this Port is very difficult, the Channel narrow, and the Bar often shifting, so that no Ship of any consequence ventures in without a Pilot.

From Girdleness or Aberdeen, to Buchanness, the Course is N.N.E. and N.E. by N. distance 8 to 9 Ls: In the Midway between both is a small Creek, called Newbro', a place fit to receive Fishing Boats and small Vessels; and a little to the Northward of the Ness, is Peter Head, a little within a small Island called Calk Inch, that is, the Chalky Island. Here are two little Tide-Piers to receive small Vessels only, and them but at high Water: But a little on the South side of Peter Head, is a large Bay where is very good riding in 8 to 9 Fa. secur'd from Northerly and Westerly Winds by the Heaa, and from Easterly by the Island or Inch. But if a Southerly Wind springs up, you had best be gone, for you will have a hard Road if it over blows.

E.N.E. from Calk Inch is Ratter-head, or Katter-head, distance 2 Ls; 'tis only remarkable because of a Ledge of Rocks which runs off N.E. from the Head a Mile into the Sea: To avoid which come no nearer to the Shore than 12 to 13 Fa. or keep a high Hill (which you will see within the Land, and which appears like a Saddle) called Mormount, in fight above the Sand Hills of Ratter Head. Mormount may be seen 10 or 12 Ls. at Sea.

N. B.

Directions for Sailing on the Coasts of the

N. B. This Buchan Nefs is the Place from which Ships take their Departure, and keep their Reckonings, and measure Distances; as Winterton Nefs is in the North, or the Downs in the South of England.

From this Point of Land called Buchan Ness, which is the Eastermost Land of all Scotland, the Shore salls off West, and makes a deep Bay called Murray Firth; and then stretches to Dungsby Head, which is the Northermost. This Bay is also called the North Firth, as that of Edinburgh is called the South. In the bottom of this Bay West, lie the two excellent Harbours of Cromarty, and Inverness or Innerness.

Cromarty lies due West from Kinnards-Head, distant 20 Ls. The River is described 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 Shoal or Rock; and when you are in its a noble Harbour, fit to receive the Royal Navy, but has no Trade.

Inverness is a little to the Southward: if you would fail to Inverness, 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 Nefs, distant 4 Ls. a bold Shore: Some Rocks lie about half a Mile from the Shore, called the Three Kings; but they are above Water, and to be seen.

There is a Harbour called Tayn, which if you are bound

to, you must take a Pilot at Tarbet Ness.

From Tarbet Nefs to Dungsby Head, the Course is N.E. by N. 18 Ls. This Dungsby Head is the Northermost Land in Scotland, and is directly opposite to the Islands of the Orkneys: The Sea between is a large Channel, called Pentland Firth.

Sailing Directions for the Islands of Orkney.

The Islands of Orkney are several Islands that lie to the Northward of Scotland, in which are many good Harbours, and good sailing between the most part of them: but the Tides run very strong among them, and in some of those Passages the Tides run very strangely; the Floodrunning here one way, and there another, of which the Pilots will inform you, but none of them can tell the reason of it.

Pomona is the greatest Island, on which is the Town of Kirkwall, where the Bishop of Orkney used to reside. In this Island are 2 very good Harbours, viz. Dearsound and Cairston.

Dearfound lieth on the N.E. end of Pomona, just within the Mulhead; which Head is a high Point of Land, and very remarkable, as you may see by the marking of it in most of our Charts. The Mulhead is bold and steep too; the Harbour's Mouth lies from this Head a L. and is about a Mile over: Keep in the middle, for there are some sunk Rocks which lie off from Point Neslin, which is on the Starboard-side going in. Being past this Point, then edge to the N. ward, and bring Point Neslin.

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To fail into Wirefound from the Eastward, you must go into Stronfa Firth, between the Mulhead and Stronfa; in which Firth runs a very strong Tide, especially on Spring. Tides; so that if you should anchor, your Cables and Anchor must be very good to hold, tho there should be no Wind; besides, the Ground is foul. Here you will have great Riplings and Breakings, caused by the strength of the Tides, and yet deep Water. Being enter'd into the Firth between the Mulhead and Stronfa, keep over to Shapinsha, and fail between it and Green Island, leaving Shapinsha on the Larboard side: And then fail between Wire, Eglesha and Rowsay; which three Islands make a good Road call'd Wirefound: You may turn in with the Tide, there being no danger; only from the S. end of Eglesha lie off some Rocks, of which you must beware; they lie 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 used by the Iceland Fishermen when they are bound out on their fishing Voyages.

There is a narrow Channel to fail out at the N. end of Wirefound, between Rowfay and a little Island call'd Scoknesholm,
where is 4 Fa. at low Water: Keep in the Middle between
them; but the best Channel is to go out at the S. end of Elgesha, and so fail out at Westra Firth between Westra and Rowfay, keeping nearest to Rowfay; for there lie some sunk
Rocks about two Miles off from Croskirk on Westra. There
is a Channel between Stronsa, Sanda and Eda, into Stronsa
Firth, and so to Wiresound, and out at Westra Firth.

I have given you an Account of the best Harbours in these Islands only; there are several others which are made use of but by small Vessels, which I have no Occasion to mention,

my Design being only to direct Ships into the best Harbours.

Between the Islands of Orkney and those of Shetland, is a small Island call'd Fair Isle, at which the Dutch East-India.

Ships do usually stop as they go and come from India.

Sailing Directions for the Islands of Shetland.

The first Island as you come from the S. is Sumbrough-head: Between it and Fitfil-head are three Bays. The best is Quandle Bay, and lies on the E. side of Fitfil-head; and is a good place to anchor in 6 to 8 Fa. the Sea being open but to 4 Points of the Compass.

A little to the Westward of Sumbrough-head is a small Bay call'd West Voe, where you may anchor in 7 or 8 Fa. Vater, and is a good Road for all Winds but from the S. to the S.E. About a Mile to the Westward of Sumbrough-head is a Bay called East Voe, which lies in S.S.W. where you anchor in 3 to 4 Fa. It is a good Road for all Winds but the N.E. As you sail in and out, you must keep a Cable's length from the N. Point, which is slat off: At the Entry into this Bay is another Bay, which runs in W. and by N. where is shoal Water not above 4 and 5 Foot.

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Pomona is the greatest Island, on which is the Town of Kirkwall, where the Bishop of Orkney used to reside. In this Islandare 2 very good Harbours, viz. Dearsound and Cairston.

Dear found lieth on the N.E. end of Pomona, just within the Mulhead; which Head is a high Point of Land, and very remarkable, as you may fee by the marking of it in most of our The Mulhead is bold and steep too; the Harbour's Mouth lies from this Head a L. and is about a Mile over: Keep in the middle, for there are some sunk Rocks which lie off from Point Neflin, which is on the Starboard-fide going in. Being past this Point, then edge to the N.ward, and bring Point Ness 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 Spring Tides rife and fall 10 and 12 Foot, and the Neap Tides 7 and 8, in the Harbour. The English Convoy, and Fishermen for Iceland, most commonly make use of this Harbour to fill fresh Water, and take in Turf for Firing. Provisions also are here good and plenty: All these Islands afford much Corn, and some Cattle: and Fish of all forts is very plenty and cheap.

Cairson lieth at the S.W. end of Pomona, and is a good

Cairfon lieth at the S.W end of Pomona, and is a good and late Harbour, having a good Outlet to the Westward. There are several Channels to sail in, as you may see by the Charts. There is a good Channel off of the S. end of Pomona, call'd Hamsound. You sail close by the Point of Rosness, leaving the Island Lambolme on the Larboard side, and so keep the Island Pomona aboard till you come up to Cairsound. There is also a good Channel between South Ronalsha and Burra, and another broad Sound between the Islands of Hoy, Flota, and South Ronalsha; also between the Islands of Hoy and Pomona, are many good places to anchor in, where you ride land-lock'd.

The Tides run in and out very strong between the W. end of Hoy and Pomona, where you will have great Riplings and Breaches, as the they were shoal Water: Yet the Channel is bold and deep, and no danger. In the Harbour of Cairston is no manner of Tide, but you ride with great safety: It slows here at Full and Change S.E. the Spring-Tides should rise and fall 10 and 12 Foot.

The next good place to anchor in is Kirkwall Road. To go in there, you must sail between Pomona and Shapinsha, leaving the Island Elgarholm on the Starboard-side, and the Island Thievesholm on the Larboard-side. Being about the Island, stand into Kirkwall Road, and anchor before the Town in 5 to 9 Fa. Water.

There is good anchoring to the Southward of Kirk-wall Bay, call'd Moonos Bay: There are several sunk Rocks that lie to the Northward of Kirkwall Bay, between it and the Island Garfay; and no Stranger should sail there without a Pilot.

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The first Island as you come from the S. is Sumbrough-head: Between it and Fitfit-head are three Bays. The best is Quandle Bay, and lies on the E. side of Fitfit-head; and is a good place to anchor in 6 to 8 Fa. the Sea being open but to 4 Points of the Compass.

A little to the Westward of Sumbrough-head is a small Bay call'd West Voe, where you may anchor in 7 or 8 Fa. Water, and is a good Road for all Winds but from the S. to the S.E. About a Mile to the Westward of Sumbrough-head is a Bay called East Voe, which lies in S.S.W. where you anchor in 3 to 4 Fa. It is a good Road for all Winds but the N.E. As you sail in and out, you must keep a Cable's length from the N. Point, which is stat off: At the Entry into this Bay is another Bay, which runs in W. and by N. where is shoal Water not above 4 and 5 Foot.

About 6 Miles to the northward of Sumbrough-head is a little Inlet, where are two Bays, Lewenwick, and Sandwick.

Lewenwick 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 Point of Nonnaise lies from Lewenwick about a Mile.

From the Point of Nonnaise lies the Island of Musa N.E. about a Mile. There is a Channel between the Island and the Main N.W. by N. and N.W. From this Island is a little Inlet going in N. call'd Eths Noe, where is but 10 and 12 Foot Water.

From the Island of Musa to the Head of Brasey or Wartbill, the Course is N. distance two Ls. Between the Island of Brasey and the Main, is the going into Brasey-sound, leaving Brasey it self on the Starboard-side. There is no manner of Danger in sailing in or out at Brasey-sound. You may anchor before the Town of Lerwick in 5 to 10 Fa. Water, landlock'd. The English Admiral, the Earl of Sandwich, in the Year 1665, anchored here with the English Fleet. This is an excellent Harbour, and much frequented by the Dutch with their Herring Busses; where they have sometimes had 1500 together: Here they have fresh Water, Turf for Firing, and great plenty of good Provisions.

You may easily know the Going into Brasey sound by the Island of Nosse, which lies to the Eastward of Brasey Island; the E. part of which Island is call'd Hang Cliff, by the Landon the Sea-side hanging over into the Sea. Wart-hill, or Sandwick-hill, is very remarkable; and you may see it far off at Sea, before you see any other part of the Island

It flows here at Full and Change, SE and by S. The Spring-Tides rite and fall 8 Foot, and at a Neap-Tide 5 Foot. Here is but a small lide, which comes into the S. Entrance, and runs out at the N. Entrance; the Ebb Tides are stronged at the N. Entrance.

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Being in Brasey-sound, and if you are to fail out at the N. end call'd the North found, keep the Main-fide till you are pais'd a small Island call'd the Holm of Craister: for to the Westward of this Island lie some sunk Rocks call'd Loof barbor. pass'd these Rocks, steer away to the Northward; and when you come to the first narrow Entrance, there is a middle Bank, on which is but 15 Foot Water: But there is a narrow Channel of 18 Foot Water, you may keep on either fide of it, the Shores being bold: And then you come into a broader place, and then narrow again, which is the northermost Passage. You must keep the Main aboard, and go close by the small Island or Rock call'd Sextland; for there lie some sunk Rocks off from Bratey fide, as you may fee by the breaking of the Sea over them towards the Sound of Brafey. Being out at the N end, you have a good Channel between Beofter Island and Green Island, quite out into the Sea.

Between the Island of Brasey and a Head-land call'd the Mouth of Fixe ek, lie four deep Sounds and Bays, call'd by the Inhabitants Fies: The Southermost is call'd Deals Voe, and lies two Miles to the Northward of the Island Brasey; it is a small Bay lying in S.W. by S. two Miles, but not above a Quarter of a Mile broad. About three Quarters of a Mile from Kebesters Point, which is on the S. side of the Entrance, there lies a Rock call'd Toagrood, which shows it felf at half

Tide; it bears from the faid Point N.E. by N.

A Mile to the northward of *Deals Voc* is *Laxford Voc*, lying S.W. by S. two Miles, much like *Deals Voc*; where is 4 to 10 Fa. Water, good Shoalings, clear Ground, and good anchoring.

A little to the Northward of Lawford Voe hes Webster's Voe, a Mile in W. by S. where is good anchoring in 4 to 8 Fa

Catford I we is the northermost, and the best of all the I oes; for there you ride Land-lock'd for all Winds. This is an excellent Bay, able to receive a Royal Navy, where you may anchor in what depth you please, from 3 to 14 Fa. clear Ground. From Sumbrough-head to Nonnaise the Flood runs to the Northward, but from Nonnaise to Brasey the Ebb falls to the northwards, and the Flood to the contrary, as the Ebb does from Nonnaise to Sumbrough-head; so that the Tides part at Nonnaise.

Directions for Sailing from the Downs to the and from thence to the Isles of Scilly; acc



ROM the Downs to the South Foreland, the Light-house upon the Foreland bearing S.W. from the South-sand-head, is the surest Mark, and is known by all Mariners going out by the South-sand-head S.S.W.

From the South Foreland to Dengy-Nefs the Course is S.W. by S. distance 6 Ls; but if you find Occasion to go into Tower Road, being taken short by westerly or S.W. Winds, stand in from the Foreland S.W. by W. till you bring the

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to 14 Fa. clear

From Fitfil-head to the Island of Colla, the Course is N.N.W. distance 2 Miles: And from Colla to the Island St. Ringins, the Course is N. by W. 2 Miles. This Island isjoin'd to the Main by a little Ishmus of Sand, which over slows at some high Tides. To the southward of this Ishmus, and within the Island, is a fair sandy Bay, where is a good Road to anchor, in 7 to 9 Fa. There is a good Road to the northward of this Ishmus, which is also good against easterly and southerly Winds.

Two Miles N. by W. from the Island of St. Ringins, are two Islands call'd Little Hevra and Great Hevra; between which and the Main is the little Island call'd Maywick: Between this Maywick and the Island Hevra is the Entrance into Cliss Sound, which is a fair and clean Sound, and runs in N. half E. 2 Ls. and a half, having the Island of East-Buro and the Island Tronzo on the W. and the main Land on the E. It is a Mile broad in some places, and in other places less, as you may see in the entring: There you may anchor in good Ground, from 18 to 5 Fa. at the northermost part of this Sound. The Island of Tronzo lies within a Cable's length of the Main; at which narrow place is a Bar, where is but 6 and 7 Foot at low Wat r, and 11 and 12 at high Water. To sail over the Bar keep close to the Main, and within half a Mile of the Town of Scallaway.

The best Channel to go into Scallaway, is to sail without the Island of Buro, and bring the Castle of Scallaway N.E. by E. There is a leading Mark, which is to keep the Castle of Scallaway just open of the S. side of Green Island; and this Mark will carry you in between Buro, Oxna, and Papa, leaving Buro on the Starboard side, and Oxna, and Papa on the Larboard-side; and so sail in between Green Island and the little Island call'd Narry, which are not above a Cable's length as sinder. Being past these Islands, run in with the Castle open before the Town in 2 to 4 Fa. Water: It slows here at Full and Change S. S. E. and S. E. by S. from Sumbrough head to Scallaway the Tide of Ebb runs to the northward, and the Flood to the contrary. Here the Variation is found to be 6 Deg. westerly, and the same at the Islands of Orkney.

Downs to the Land's-End of Cornwall Westward, of Scilly; according to the Best and Latest Surveys.

Foreland, the ing S.W. from Mark, and is the South-fand-

the Course is associated to go into r S.W. Winds, you bring the

The Shore is flat with a high Beach at the farther part; 'ris adviscable not to come too near the Shore, especially off of Pemsey, 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 Westward is, Beachy-head S.W. and Pemsey Castle N. half E.

Beachy is a high chalky Cliff, being the fouthmost Point of that they call the South Downs, which run from thence thro' the whole W. parr of England to Salisbury Plains, and into

the Northward; but from Nonnaife to Brajey the Ebb talls to the northwards, and the Flood to the contrary, as the Ebb does from Nonnaife to Sumbrough-head; so that the Tides part at Nonnaisse.

Directions for Sailing from the Downs to the and from thence to the Isles of Scilly; acco



ROM the Downs to the South Foreland, the Light-house upon the Foreland bearing S.W. from the South-fand-head, is the furest Mark, and is known by all Mariners going out by the South-fandhead S S.W.

From the South Foreland to Dengy-Nefs the Course is S.W. by S. distance 6 Ls; but if you find Occasion to go into Tower Road, being taken short by westerly or S.W. Winds, stand in from the Foreland S.W by W. till you bring the Whiteway to the N.W. of Drier Caffle, right over the Hill which comes from Dover Captle, or between the Hill and the fquare Tower of St. James's Church in Dover: Then you may anchor in any Depth you pleafe, from 8 to 14 Fa off of Folkston, and between the South Battery and Folkston, you have very good anchoring for a S.W. Wind in 8 to 10 Fa.

There is a Sand lies off of Dover, about 2 Ls S. from the South Foreland, 'tis call'd the Gunman; and ENE from Dengy Nefs it stretches away N.E. and SW. There is 5 to 6 Fa close to it all round, but only 2 Fo upon it at low Water.

Dungen or Dengy-Nefs, is a low beachy Point running far out to Seaward, the Shore is bold, and, with the Wind off Shore, you may go as near it as you pleafe, keeping in 9 to 10 Fa. but if the Wind be off Sea, come not so near, for there is a very dangerous Bank juft within the Point, that has but 12 Foot Water upon it. There is a Light-house upon the Point.

On the E. fide there is good anchoring with a westerly Wind; but if you turn to windward from Dover to get about the Aefs, you must take care of the Rip Raps, a long Sand which lies off of the Ne/s, mid-way between Dover and the French Coast; the shoalest part of it is from Dover S. and from Calais Cliff's W. by S It lies N.E. and S.W. 12 Ls. in length, but very narrow: There is about 15 Foot Water on it at low Water.

Being about the Nefs, and bound westward, you open the Port of Rye: 'Tis a Barr'd-Port, made to by laying the Lands dry, and banking in the Marshes, so as to check the Indrast, and have no back Water to keep open the Mouth of the Channel; by which means they have choak'd up the best Harbour on all this Coast, from the Thames to Portsmouth. 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 Barnot above 9 Foot.

The Filhermen of Rye are the best Pilots; and if you are bound into the Harbour, 'tis necessary to furnish your self with one of them; for it is a very nice and difficult Place.

From Denzy Ness to Beachy, the Course is W.S.W. 9 Ls.

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Downs to the Land's-End of Cornwall Westward, Scilly; according to the Best and Latest Surveys.

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Beachy is a high chalky Cliff, being the fouthmost Point of that they call the South Downs, which run from thence thro' the whole W. part of England to Salisbury Plains, and into Gloncestershire. To the westward of the Head lie other chalky Cliss, which they call the Seven Cliss's, and are very well known.

To the eastward of *Beachy* you may anchor very fase under the *Head*, in 6 to 7 Fa. the *Head* bearing N. and N. by W. from you: And to the westward, thwart the W. end of the *Seven Cliffs*, you may anchor in 7 to 9 Fa. right against the Swindle, from whence you may run along S. into the Haven of *Cookmore*.

About 2 Ls. from Beachy, the Head bearing N by W. lies a very dangerous Sand of but 17 Foot Water: Upon this Shoal the Triumph struck, and the Nasjan lost her Rudder, when the Royal Navy was turning down the Channel.

At the W. end 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 Sea, the Harbour is quite barr'd up with Shingle, but opens again by the Land-water. New Haven does the same exactly, which makes them both be of very small use; the latter is 3 Ls. from Beachy W.

West of Beachy lies Shoreham, distance 7 Ls. and between them Brighthelmston, vulgarly Bredhemston. The latter has no Haven, but the Vessels haul up upon the Beach with Crabs to lie dry; 'tis a large Place for fishing Barks, which go yearly to North-Tarmouth to the Fishing Fair for Herring. Shoreham is a Tide-Haven, but the best of the kind upon the whole Coast; and Vessels that do not draw above 9 Foot Water, may lie a-sloat within the River a little below the Town. The W. Point of the Entrance runs out easterly farther than the E. Point: so that when you come from the W. you cannot see the Opening of the Harbour; but as you come from the E, it opens, and is seen at a League distance. You must take a Pilot to go in, because the Sands shift often, so I need not describe the Entrance.

West from Shoreham lies Arundel, distance 4 Ls. The Pilots call it a Tide-Haven, and yet own that Ships ride a-float when they are in; which I cannot reconcile. All to the westward of Shoreham hither is a bold Shore, and you may stand in and come to an Anchor any where in 7 to 8 Fa. but from

Arundel

Directions for Sailing from the Tha

Arundel westward is a flat Shore, so that you will not have

above 6 to 7 Fa. 2 Leagues from the Shore.

S.W. by S. from Arundel lies a Bank call'd Eastborough-head, distance 3 Ls. 'Tis dry at low Water for near a Furlong in length; the whole Sand is a League long at least: But there is another Sand call'd the Owers, very near the other; they lie 4 Ls. from the Shore S. by W. and they have but 10 Foot Water on them: And between Eastborough-head and the Owers, half a League from the first, N.W. lies a Ledge of Rocks, on which there is not above 6 Foot Water. The Owers is a very dangerous Sand, and has been stall to many good Ships; it ought to be thorowly describ'd, because it lies so directly in the way of all our Ships passing up and down the Channel; it lies S.E. from Chichester Spire, 4 Ls. from the Shore, and 4 to 5 Ls. from Benbridge Point on the Isle of Wight, the Island bearing due West.

It is a large Sand, for it lies extended 9 Miles in length, and 3 in breadth, in the Middle, but narrow at both Ends; it ge-

nerally lies dry at low Water.

There are a great many other Sands within it, as particularly the Mixens, which lies out from the S. Point of selfey 2 or 3 Miles to the fouthward, and is also dry at low Water: Between the Owers and the Mixen 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 Vessel of Burden to venture in among them without a very skillul Pilot.

Our Direction therefore and Advice to all Commanders of Ships is, to steer 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 Stress of Weather; the Direction is very

plain and fhort.

From Beachy head to the Isle of Wight the Course is W.S.W. 18 Ls. If you are bound to the W. keep Dunnose W half Southerly, so you run a good Birth without all these Shoals; and there are divers good Marks to avoid them besides: For Example, (1.) There is 12 Fa. Water close to them, keep in 18 Fa. you are sure to go clear of them all.

(2.) The thwart Mark for the Owers is Chichester Steeple, 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 Course is E. half N. still keeping, as above, in no less than

18 Fa. at your Peril.

There is a Channel also between the Owers and the Main, coming from the W. and leading into Chichester; 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 describe. Within these Sands is a great Sound, wherein lies the Port of Chichester, and several other Creeks and difficult Places, which, as above, I refer to the Pilots, for no Vessels go in

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If you we chor in St. by the Sea and this is great Sands also keep S When you Wight, cally you are in where you

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And on the Starboard-side you have a large Sand call'd the Horse, on which there is but 7 Foot at low Water.

If you would go on for Spithead, 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 Church into one; and this is the best of the Channel, lying between the two great Sands call'd the Horse and the No-man's-land; but you may also keep Stoke Church just open to the southward of Gilkicker. When you bring a small Village by the Sea side on the Isle of Wight, call'd Ryde, to bear W.S.W. and Gilkicker N.W. then you are in the best of the Road at Spithead, and may anchor where you please; '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 Horse and No-man's-land, are worth describing here, because they are very necessary to be avoided in coming into this well frequented Bay of the Isle of Wight: The Horse is a Sand between St. Helens and Spit-bead, it is hard Ground, and in some places has not above 7 Foot at low Water: When the great white Patch, so well known upon Portsmouth Down, is on upon South-Sea Castle, then you are within the Sand; keep Portsmouth Steeple in one with the Redoubt on the E. side of the Town, which is like a Pigeon house, it will carry you close by the Horse in 5 to 6 Fa. Water.

The Eastermost part of this great Bank is called the Dean; when the Windmill on the Isle of Wight bears S.W. by W. then you are a breast of the Buoy of the Horse.

N. B. If you turn from St. Helens between the Horse and No-man's-land to go into Spithead, be very careful of coming too near No man's-land; for it is so steep, that near it you may have 10 to 12 Fa. and the next Cast be a ground.

No-man's-land is a large Sand, lying all along Shore from the East quite to the North part of the Bay N.E; it goes stretching round from St. Helens Road, almost as sar as Newport Point: 'Tis called by several Names in several Places by Fishermen, but is the same 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 Windmill on the Ille of Wight between the S.W. and the S.W. by W. when it will be just over a square Field by the Sea side, and keeping sight of the Mill, will carry you clear; but if the Mill comes behind the Land out of sight, you will be a ground upon the Spit. The same Mark will carry you up into Cows Road, keeping the No-man's-land all the way on the Larboard side; All within the Isle of Wight, where you are clear of the Sands, is good Ground and safe anchoring.

The Buoy of No-man's-hand lies on the N.E. Point of the

Example, (1.) There is 12 Fa. Water close to them, keep in 18 Fa. you are sure to go clear of them all.

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There is a Channel also between the Owers and the Main, coming from the W. and leading into Chichester; 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 describe. Within these Sands is a great Sound, wherein lies the Port of Chichester, and several other Creeks and difficult Places, which, as above, I refer to the Pilots, for no Vessels go in without them.

The chief Reason why so many Ships have faln in on these Shoals, is the great Indrast of the Tide, setting strong into St. Helens, 8 Hours in 12 or more; the latter part of the Flood also sets into the Road of St. Helens: My Advice is, when you are near this Place in the Night, or in thick Weather, be very careful, and keep your Lead going well. In little Winds, or stark Calms, you shall be drawn in here to Admiration by the strong Indrast; which if you find, you must come to an Anchor in time.

To the Eastward of the Owers there is another Going or Entrance into Chichester, leaving Selsey Pointon the Starboard-side: 'Tis the Channel which the Vessels from London use, who go into Chichester, Emsworth, and other small Places thereabout; but 'tis very difficult, and none but such as are well acquainted ought to venture in without a Pilot.

Suppose your Ship now to be without all these Sands in 18 Fa. Water, as above, and bound to the Westward, to the Isle of Il ight, or to St. Helens Road: Being in fight of the Isle of Wight, there you will see a white, steep, chalky Cliff, very high, call'd Culver Cliff, or Swan Cliff: Keep it before you W.N.W. and N.W. by W. it is within 2 Miles of Benbridge Point; when you come within about a League of the Cliff. steer in for St. Helens, but be careful of a Spit of Sand call'd Benbridge-ledge, that lies away to the eastward of Benbridge Point, 2 Miles into the Sea.

N. B. This Benbridge Point is the castermost Land of the Isle of Wight.

When the Swan Cliff is lost behind Benbridge Point, then you are within that Spit; you may run over the Spit in 5 to 6 Fa. Also about one League N. by W. from Benbridge Point, has a small Sand call'd the Wara 2, upon which there is a Buoy about a Mile from the Shore.

If you would anchor in St. Helens Road, bring St. Helens Church to bear W.S.W. from you, and then you have 5 to 8 Fa. Water; there is a finall oozy Bank in the Bay of St. Helens, which at a low Ebb has but 14 Foot Water on it:

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The Buoy of No-man's-Land lies on the N.E. Point of the Sand: from thence, fleering N.W. by N. and W.N.W. with the Mill in fight, will carry you into Cows; and keeping a little more Northerly in the same Course, carries you into Stoaks Bay, or into Hamton Water: But for all those Waters, you may take Pilots at St. Helens as you find occasion.

Cows Road is the best Harbour on the inside of the Island Wight; the fair way out to the Needles. is the easiest Passage of its kind: there is a hard Shoal in the fair way to Cows, 'tis called the Bramble, and reaches thwart of Newport; 'tis almost dry at low Water: Keeping close to the Island avoids it, for all the Shore of the Island is bold, from Newport Point where the No-man's-land ends, almost to the Needles; between No-man's-land and the Brambles lie two small Sands, one called the Ryde Middle, and the other the Middle; but they are out of the way here. When you come from St. Islands to the Westward, you go within them a great way, keeping towards the main near Stoak's Bay, till you bring the Windmill Strom you, or S. by W, and then you are past the Ryde.

From Cows to Hurst Castle is a fair way, or from Yarmouth is the fame. Near Hurst Castle, a little to the N E is a good Road called Jack in the Basket; if you would anchor there, bring the Needles just open of the Point, and Turmouth Castle S. by W. or S.S.W. and you are in the best of the Road: where you have 7 to 8 Fa. and out of the Stream of the Tide, which runs very tharp here, especially between the midway and the main. Being past the Cattle, steer away boldly S W. by S. for the Ebb, S. or S. by W. for the Needles, which you will fee before you; they are little sharp white Rocks, and plain above Water; in the fair way you must keep close to Opposite to them are other Rocks, called the Shing! . . them. by keeping close to the Needl's you avoid the Shingles, the Tide of Ebb fets on them, as the Tide of Flood does on the Needl s, and both run very flrong: You have here 4 . Fa. at low Warer: When you are out, and the Needles bear N E. from you 2 1 to 3 Ls. the Ground comes rocky and thingly; but keep off in 25 to 30 Fa.

N. B. Newport lies from Hurst Cystle E.N.F. distance near 4 Leagues.

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f *St*, n it : If you come from the Westward, and are to go in at the Needles, take the following Directions: You will know the going in by the high white Land, and which you are to leave on your Starboard side; it is the West end of the Isle of Wight: You may run boldly in with the Land, till you see the Needle Rocks, and then keep close to them, observing the Tides, as in the Directions for coming out. Note, That there is an Indrast that sets in from the Needles into Pool; which Indrast hath haul'd many Ship into Fresh Water Bay: but I am very sure that no Ship can run ashore into Fresh Water Bay, if they did but mind the Lead; the neglect of which hath been the loss of many a good Ship: Keep in 25 or 30 Fa. Water, and you need not fear the Indrast of the Wight.

If you come from the Westward, and would come into St. Helens on the back of the Wight, you must run far enough to the Eastward, to bring the great white Patch upon Post Down N. by W. else you will not go clear of Benbridge Ledge; and bring St. Helens Church to bear W. by N. half N.

and open of the Red Cliffs.

Of the Course of the Tides, and the Depth of the Channel between Dover and the Isle of Wight.

Between *Dover* and *Dengy Nefs*, and likewife thwart of the Nefs, a S.S.W. Moon maketh a full Sea; in the Channel off Winchelfea, a S.by E. Moon; at Beachy by the Shore, a S.E. Moon; 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 South Foreland to Dengy Nefs it runs half Tide and half quarter; from the Nefs to Fairlee it runs half Tide; and from Fairlee to Beachy one quarter Tide under another. From Dengy Nefs to Dover, the Flood fers NE. by E. and the Ebb S. W. by W; from Beachy to the Nefs E N E. and W.S.W; at Beachy by the Shore, and before the Seven Cliffs, the Flood fets E. by S. and the Ebb W. by N; from the Wight to Beachy the Flood fets E. by N. and the Ebb W. by S.

Between Winchelsea and Picardy in the mid Channel it's 26 and 27 Fa. deep: and in such depth you may see Fairlee and

the South Foreland.

Within *Beachy* thwart of the *Seven Cliffs*, its 16 and 18 Fa. deep; and mid Channel between *England* and *France* its 26 and 28 Fa. If you would anchor in *Freshwater Bay*, bring *Dunnose*, which is the Southermost Point of the *Isle of Wight*, E. by S. or E. by S. half S. there you lie in 16 to 18 Fa. the *Needles* bearing N.W. or. N.W. half W. from you.

Christ Church is a little bar'd Haven, where small Vessels may run in at high Water: 'Tis the Mouth of the River Avon and Wellie, which come down from Salisbury, and are made navigable almost to the City by Barges, &c. 'Tis about 2 Ls.

from Hurst Castle, the Course W. Northerly.

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

Portland Race is a terrible place indeed; it is a violent rippling of the Sea, occasion'd not by the meeting of two Tides (which is the vulgar Error) but by Overfalls and a kind of Sea Cataracts, in the Bottom; by which unevenness of the Ground when the Sea is high, the Tides being strong, there are great Heavings and Breakings in the Water, which makes very great Seas; and as the Winds may be, Ships are sometimes in danger of soundering there. This Rippling begins about two Miles off of Portland Bill one Mile Westward, and reaches East as far as St. Albans or Peverel Point.

Within Portland, bearing from the Road N. by E. distance one long League is Weymouth, a Port of good Trade, but a barr'd Haven; there is very good Riding without the Bar in Weymouth Road, and at the Point of Melcomb Regis on the Larboard side; the Westermost Point going in is a Mole or Stone Pier very strong, with a Battery of Guns upon it.

There are two Lighthouses lately crected on the Bill of Portland, which have been found very serviceable in case of Ships running to the Eastward; and were the saving of two East India Ships a very sew 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 self.

N. B. Portland Bill is the Southermost Point of Land of the Island, running out a great way into the Sea, and is by some thought to be the most Southerly Point of the Island of Great Britain.

The Race is two Miles without it, still farther South; Ships may run between them in moderate Weather, but there are many Dangers here about, and especially the being imbay'd, and driven upon the Beach to the Westward of Portland, where abundance of good Ships have been lost; 'tis a steep stone Beach, which runs away N.E. from the Northermost part of the Island, making a large Hook, with a Bay almost 7 Miles. If you are bound up the Channel from the Westward, take care, as soon as you see Portland Lights, to haul off to the Southward; and when you have the Lights both in one, you will be past the Race: and then you may go away E. by S, and you will also avoid the Shambles mention'd before, and so 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, especially if you can have a Slack or Tide of Ebb; and when you have held on about a L. N.E. Easterly, steer away due N.E. by N. for Portland Road, and lie there for better Weather; and remember that you have escaped the greatest Danger in the whole English Channel.

But if you can by no means weather the Bill, you must

from the Wight to Beachy the Flood lets E. by N. and the Ebb W. by S.

Between Winchelsea and Picardy in the mid Channel it's 26 and 27 Fa. deep: and in such depth you may see Fairlee and

the South Foreland.

Within Beachy thwart of the Seven Cliffs, its 16 and 18 Fa. deep; and mid Channel between England and France its 26 and 28 Fa. If you would anchor in Freshwater Bay, bring Dunnose, which is the Southermost Point of the Isle of Wight, E. by S. or E. by S. half S. there you lie in 16 to 18 Fa. the Needles bearing N.W. or. N.W. half W. from you.

Christ Church is a little bar'd Haven, where small Vessels may run in at high Water: 'Tis the Mouth of the River Avon and Weslie, which come down from Salisbury, and are made navigable almost to the City by Barges, &c. 'Tis about 2 Ls.

from Hurst Castle, the Course W. Northerly.

Due West from the Needles is the Entrance into the Harbour of Pool, distance 5 Ls. it is a barr'd Port, but has 10 to 11 Foot Water on the Bar at low Water, and does not flow above 5 to 6 Foot upon the Flood Tide, but then you have two Floods in every Tide; a S.E. Moon makes sull Sea, and a S by E. Moon makes the other Flood; this is occasion'd by the strong Ebb out of the Isle of Wight.

If you would go into Pool, Wareham, Purbeck, or other places, for there are several small 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 Point is a little Bay called Sandwick, or Sunwich; and S. of the Bay, a Point which runs far out, called St. Albans, and ordinarily Peverel

Point, or Peverly, as some call it.

From Peverly, or Peverel Point, to the Westward, the Land is high, and is called the high Land of St. Albans. About 2 Ls. or more to the Westward of Peverly Point, is Kembridge Ledge, which lies off from the Shore S. by E. into the Sea a Mile and half: It has at that distance but 6 Foot at low Water, and three quarters of a Mile off 13 Foot, and a Mile off 4 Fa. There is another Ledge that lies right off from St. Albans head, about three quarters of a Mile off Shore, and hath but 12 Foot at low Water; it lies between Kembridge Ledge and Peverly Point.

Four Leagues from Peverly Point is a small Cove called Lulworth, where small Vessels may ride with almost any

Wind, but there is not above 12 to 13 Foot Water.

From the West end of the Wight to Portland Bill, the Course is W. by S. and W.S.W. distance 11 to 12 Ls. but if you are at Sca, then the Course is from Dunnose W. and by

S. 15 to 16 Ls.

Portland Road is a very good Harbour, perfectly landlockt from Westerly and Southerly Winds, very good holding Ground; but you must take care to avoid a Sand called the Shambles, which is a long hard Sand off of the S.E. part of Portland: If you bring Weymouth Castle on, upon the East

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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, especially if you can have a Slack or Tide of Ebb; and when you have held on about a L. N.E Easterly, steer away due N.E. by N. for Portland Road, and lie there for better Weather; and remember that you have escaped the greatest Danger in the whole English Channel.

But if you can by no means weather the Bill, you must trust to your ground Tackle, and come to an anchor. 'Tis true, you have bad Anchor-hold in the Bay, being all loose Ground; and many Ships have been driven from their Anchors there, and gone right ashore: If then you are brought to the like Distress, and see no Remedy, observe that between Burton and Chissel the Beach is steep too, and where it slows nine hours, and ebbs but three: If you must go on Shore, do it there if possible, 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 usual in such Distress, in order to save their Lives; but if possible, and your Ship does not immediately break in pieces, have Patience for sive or six Seas, and then you will find the Ship settle in the Beach, and shelter you from the Force of the Seas; and you may step leisurely upon the Beach, and get off; whereas if they immediately quit the Ship, they are inevitably lost by the Rage and breakings of the Sea.

N. B. The two Lights upon Portland stand N. and S. of each other, and bear N.W. by W. from the Shambles.

N. Westward from *Portland* in the Bay, but beyond the Beach, lies the Port of *Lime*, distance 7 Ls. Here is no River or Creek, but a strange artificial Harbour built out in the Sea, and quite distant from the Shore, only as it is joined by the Buildings. It is a Stone Pier with a *Basin* 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 Vessels.

N. B. The Shore is stony and foul, and Ships could not lie here if this Haven had not been built.

The next Port is Exmouth, going up to Topsham and Exeter; the Course from Portland is W by N distance 12 Ls. say some of our Pilots, others say 15 Ls. I think neither of them are right; the middle reckoning of 13 Ls. I think the truest.

The

Directions for Sailing from the

The going in to this Place is very narrow, having Rocks on the E. fide, and Sands on the West; at low Water there is but 6 and 7 Foot on the Bar, but at high Water 16 and 18 Foot Water. Here are always Pilots ready to come off, and no Man ought to venture into the Place without one.

Between Exmouth and Torbay is Tinmouth, distance five Miles from the first, and near as much from the last: 'tis a small Tide-Haven, and the Town was burnt by the French in

the late War.

Torbay is a well known Place, famous for the landing of King IF illiam with the Dutch Army, in the Year 1688; 'tis a spacious large Bay, and able to receive a very great Fleet, as appear'd at that time, when it had 50 Men of War, and near 500 Sail of Transports riding in it at once: The Ground is clean, very good Anchor-hold, and the Road safe; especially for Northerly, Westerly, and Southerly Winds, provided they are not to the Eastward of the S.

To go into the Bay, bring the West Point, and the Berry S. by E. or S.S.E. from you; you have 7 to 8 Fa. Water any where, and may take what Birth you think fit. There are two Piers in the Bay, one called Brixam Key on the S. side of the Bay, and Far or Tor Key on the North: Small Vessels may be close to them to take in Goods, but they must lie dry at low Water. Likewise on the N.E. side of the Bay there is a small Tide-Haven called Tor Mount. The whole Royal Navy has often rid in this Bay, with great safety, nothing but a S.E. Wind is uneasy to it.

The West Point of this great Bay is called the *Berry*, which runs out far S. into the Sea: Off of the East Point is a high Rock standing far out of the Sea, called the *Mew-stone*; and off of the *Berry* another called the *Berry Rock*; but they are both out of the fair Way or usual Entrance into the Bay.

Two Ls. to the Westward of the Berry lies the Port of Dartmouth: the going in is very narrow, between two high Lands; in the Narrow it is but just a Cable's length over. the West fide is a Castle, and on the East fide a Block-house: The going in and out at this Place is very dangerous, except the Wind blow right in, which are Southerly Winds; for if the Winds be either Eafterly or Westerly, then the high Lands which he off on each fide, cause Overslaws and Calms, sometimes blowing in and prefently right out again; which hinders a Ship in turning in or out, by putting them aftays unawares. There are always Boats ready to come off, which are good Boats to row, and are called Tow Boats, and are very ferviceable in towing Ships in and out, and to bring them aftays: without which Boats 'tis very dangerous going in or out. The northerly Winds blow right out, and the foutherly Winds right in; but the eafterly and westerly Winds blow with Flaws and Calms in and out. When you are gotten in, it is a most excellent good Harbour, and can contain the Royal Navy.

There is also good anchoring without the Harbour's Mouth, in

the Road called Dirtmouth Range.

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were all dash'd to pieces against the Rocks, or founder'd as they rode in the Sound, the third Night after they arriv'd, and most of the People lost; only one Ship was faved by running, or rather driving into Catwater in the dark, and in the height of the Tempest.

The Mew-flone on the E. and the Ram-head on the W. make the Sound of Plymouth; the W. fide is the best going in, and the common Mark for anchoring in the best Ground, is to bring Mount Edgecomb Honsé just open, and the Withy Hedge right up and down: Another Mark, and which is counted still better, is Plymouth Church upon the W. end of the Citadel, with St. Nicholas Island N.W. and Pensee Point S.W. there you have 7 Fa. clean coarse Sand; and a little to the northward of Pensee Point is Canson Bay, a fair fandy Shore, good anchoring close under the Land, in 9 to 10 Fa.

N.W. by N. from the Mew-flowe, distance one Mile, is the Shag-flowe; and W. of that '; of a Mile, is the Shag-rock, or as some call it the Tinkers Sheers; but there is near 3 Fa. on it at lowWater. N. by W. from the Tinker, lies the Cloudesly, or as some call it the Shreel Rock, call'd so from Sir Cloudesly Shovel, who order'd a Buoy to be put upon it; it lies sunk in 16 Foot Water. When you see Makers Steeple over Causon W.N.W. then you are a-breast of the Shovel.

W.N.W. then you are a-breaft of the Shovel.

I need not give the Marks for running into Catwater or Ham Oaze, because, if you are wise, you will call for Pilots to carry you in; but the Eddystone being without all, requires

to be exactly described:

The Eddyfione lies S.S.W. from Plymouth Sound; the N.W. part of it is above Water at the Ebb of a high Spring-Tide appearing about 6 or 7 Foot high. The W. fide is bold and fleep; but the S.S.E. part of it is foul for about half a Mile off; and at low Water there are feveral other Rocks which flew themselves above Water. The main Rock lies from the Start W. a little foutherly, and from the Ram-bead S. by W. a little westerly, about 3 Ls. or rather more from the Ram-bead. You have 20 Fa. Water close by the Ram-bead, and between the Head and the Eddysione 35 and 36 Fa. and in the Stream of the Eddysione 40 Fa. Keep without 40 Fa. Water, and you cannot come foul of the Eddysione: It is high Water here at the Stone, when it is high Water at Plymouth. From the Start to the Lizard, in the Offing it flows half Tide, that is S.E. by E. It is half Flood at Plymouth, before the Flood gets to the eastward in the Offing.

West from the Ram-head, a little southerly, lies the Haven of Foy, distance 7 Ls. It is easily known, lying in between two high Lands; and as you need no Pilot to carry you in, take the following short Direction. On the W. side of the Entrance is an Old Church, and a Cassle; and on the E. side the Ruins of a Church; the Mouth of the Port a Cable's length over, a clear Channel, 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 ever was so, the Bar is worn out, and

Terson junearemones length over. Ull the Well fide is a Caffle, and on the East fide a Block-house: The going in and out at this Place is very dangerous, except the Wind blow right in, which are Southerly Winds; for if the Winds be either Easterly or Westerly, then the high Lands which he off on each fide, cause Overflaws and Calms, sometimes blowing in and prefently right out again; which hinders a Ship in turning in or out, by putting them affays unawares. There are always Boats ready to come off, which are good Boats to row, and are called Tow Boats, and are very ferviceable in towing Ships in and out, and to bring them affays: without which Boats 'tis very dangerous going in or out. The northerly Winds blow right out, and the foutherly Winds right in; but the eafterly and wefterly Winds blow with Flaws and Calms in and out. When you are gotten in, it is a most excellent good Harbour, and can contain the Royal Navy. There is also good anchoring without the Harbour's Mouth, in the Road called Dartmouth Range.

From Dartmouth to the Start S.W. by S. distance 3 Ls. there is a Bay, and the Shore bold, only there lies a small Rock half a Mile or more off of the Start: The Start is a low ragged Point, rising from the Sea far into the Land. From the Start to the Praul the Course is W.N.W. about a little L. and from the Praul to the Boulthead W.N.W. 2 Miles. Between these two Heads, is the going into Salcomb, which is a barr'd Harbour, on which there is 9 Foot at low Water, and 4 Fa. at high Water, and more. Being in, there is very good anchoring in the Bay, at 3, 4, and 5 Fa. at low Water. The Boulthead is very high Land: The Entrance into Salcomb is very narrow, between the Old Cassile and the Black Stone, being not above three quarters of a Cable's length over.

Plymouth lies at the bottom of a deep Sound, bearing its Name, almost midway between the Mew-flone and the Rambead, 7 Ls. distance from the Start: the Course is N.W. by W.

In the Sound are two large Openings, being the Entrance of two confiderable Rivers, which make a double Harbour, one for Ships bound to the East, and the other for Ships bound to the West; either of them deep without any Bar, and able to receive the biggest Ships in the Navy. That to the E. and where Ships go in which are bound W. is call'd Catwater, being the Mouth of the River Plym: That to the W. where Ships ride which are bound to the eastward, is call'd Ham Oaze, and is the Mouth of the River Tamar: Between them is the Citadel and the Island of St. Nicholas.

Before the Citadel lies a fair Bay, into which both these Rivers fall. And this is call'd Plymonth Sound. Here Ships often ride also, but they are much in the wrong, for it is a most dangerous Place with some Winds; they who will ride in danger, when there are two safe Harbours as any in Britain just at their Bows, are very much to blame. This very Mistake was the Ruin of a whole Fleet of Merchants Ships homeward bound from Barbadoes, and deep loaden, about the Year 1704, who putting into the Sound in sine Weather, with an easterly Wind and almost calm, forbore to go into Ham Oaze as they ought to have done, and by a sudden Storm

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West from the Ram-head, a little southerly, lies the Haven of Foy, distance 7 Ls. It is easily known, lying in between two high Lands; and as you need no Pilot to carry you in, take the following short Direction. On the W. side of the Entrance is an Old Church, and a Castle; and on the E. side the Rains of a Church; the Mouth of the Port a Cable's length over, a clear Channel, 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 ever was so, the Bar is worn out, and you may depend upon it, there is no less than 3 Fa. Water at the Entrance at low Water, at the lowest Ebb; and near 6 Fa. at high Water. Here also you may lay a Ship on shore to wash

and tallow, stop Leaks, Sc. It is a very fafe Port.

S.W. from Foy, distance 4 Ls. is the Deadman; it bears from the Lizard N.E. by E. distance 7 Ls. and from Falmouth N.E. distance 3 Ls. Between Foy and the Deadman lies St. Blazy's Bay, the Point call'd Predmont making the W. side of it. Half a Mile from this Point lies a Ledge of Rocks call'd the Canneys, which appear above Water at half Tide; there is a Passage within them, but it has but 7 Foot Water, so 'tis only sit for small Vessels. N.E. from the Deadman lies also a great Rock above Water, call'd the Winhead Rock; it lies a League from the Deadman, and a Mile from the nearest Shore: Small Vessels, and such as are well acquainted, go within it, but 'tis hazardous to Strangers.

S.W. by W. from the Deadman, distance 3 Ls. is the Entrance into Falmouth Haven: Between them, 3 or 4 Miles S.W. from the Deadman, is the Gull Rock, distance from the Land 1 † Mile: And at the same distance 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 N.E.

They are both above Water.

Falmonth Haven is a vast Inlet of the Sea, and may be call'd a Haven full of Havens; it lies between the Deadman and the Lizard; it may be known at Sea by Pendennis Castle standing on a Hill at the W. side of the Harb ur's Mouth. There is a Rock with a Pole upon it, at about the Middle distance from the W. Shore of the Entrance of the Harbour; 'tis call'd Falmouth Rock; and on the E. side of the Entrance stands St. Maws Castle.

The Entrance into *Palmonth* is by feveral Channels; when entred, there are so many several Roads, that referring to the Pilots, 'tis needless to describe them, they are all safe and good.

S. and by W. from the Mouth of Falmouth Haven, lie the Mannacles, distance 2 Ls. these are a Cluster of Rocks, some

above Water, some under, stretching almost a League into the Sea eastward: If you fail from Falmouth with the Flood S by E. you go clear of them; if with the Ebb you must go away S.S.E. or S.E. by S.

Helford lies between Falmonth and the Mannacles; 'tis an open deep Sound, and lies due E. and W. As you go in, keep the fair Way, a little more to the S. Shore than the N. 'tis all faie and good on that fide. A little to the E. of Helford is a

Bar, with 9 Foot at low Water.

The Lizard stretches out S. by W. from Ileisord; right off of the Point lies a Cluster of steep Rocks called the Stags; they stretch into the Sea S from the Lizard about a Mile, and are steep too, having 12 Fa. Water close to them: Therefore keep

at a good distance S.

N.W. from the Lizard lies Mounts Bay, distance 6 Ls. 'tis call'd so from a high Mount standing in the Middle of a small Island or Rock on the E. side of the Bay, and which is call'd the Cornesh Mount; on the Top of the Mount is an old Castle, and on the N.W. side of the Island a small Pier: 'tis not above a quarter of a Mile from the Shore, and they go over dry at low Water; and about 3 to 4 Miles from the Mount SE or SE by S. there is a parcel of sunk Rocks call'd England's-Key; they have about 8 to 9 Foot Water on them at low Water. Also on the NW. side of the Bay is Pensance, where there is a little Tide-Pier, only for small Vessels, and dry at low Water.

Over against the Mount W. is Gover's Lake, which is a good Bay for anchoring; because bringing some sink Rocks call'd Carrenbase, and Lowlergh S.E. from you, they break off the Sea: They bear from the Church of St. Paul N.W. by W. and W.N.W. a quarter of a Mile from the W. Shore: Bring St. Paul's Church S.W. by S. and St. Clement's S. and S. by E. and Pensance due N. and you will have 4 to 5 Fa. at low Water, good Ground and safe Riding. You may come to an anchor in Mount's Bay almost any where from 7 to 20 Fa. Water; the Spring-Tides rise above 3 Fa. Almost all the way from the Mount to the Lizard the Shore is full of Rocks.

From this Bay to the Lands-end is all a bold Shore, distance it. I.s. About a Mile and half from the Point due S. is the Rundie Stone, a Rock which shews above Water at half Tide; tho it is so near the Land, you have 20 Fa. Water between them the Lizard to the Landsend the Course is W.N.W.

diffance 9 Ls.

A little to the wellward of the Lizard is a fmall Island with a Church upon it, call'd St. Clement's, which is the Mark for the teveral Anchorings in the Bay, as above; it lies just before the little Town of Monfehole, where there is a large Bay and good anchoring, in 7 to 8 Fa. and is a fafe Road, except the Winds are at S.D. or E.S.E. which blow right in, and of course make a high Sca

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of a Mile of it; keep the outward part of the Long-Ships on the Breefin Island, that carries you just upon it; but open them a Hand-spike's length N.W. you go clear.

When you come from the Sea, and first make the Lands-end E. or E.N.E. you will see two round Hills upon it, and upon the highest of them a Spire Steeple; as you come on, you see another Spire, upon the lower Ground on the outmost End; By these Marks you are to know the Land, and are sure you are right.

At the Extremity of the Land, lie some Rocks call'd the Long-Ships, a little N.W. by N. from the Point at the Rundle Stone due S. you may run within them on either side; but the N. side is best and broadest, and there you may anchor in 8 to 9 Fa. only avoiding a sunk Rock which lies close to the N. Point of the Land.

The Islands of Scilly lie from this Point call'd the Lands-end W S.W. distance 9 Ls. and from the Lizard Point due W. 16 to 17 Ls. The Long-Ships are high Rocks above Water, stretching out W. 2 Miles from the Land; 'tis all foul between them and the Main, tho otherwise Water enough. To the northward of them is Whitfand Bay, where small Vessels coasting from one Channel to the other, often come to an Anchor; and beyond the Bay is the Breesin Island. The Course from the Long-Ships is N.N.E. distance almost 2 Ls. 'Tis a little, high, round Island, and bears W. from Cape Cornweall about a Mile from the Shore.

West half S. from Cape Cornwall, distance 6 to 7 Ls. lie the Seven Stones; these are Rocks also above Water at half Tide; they lie in length N.W. and S.E. about 2 Miles and half, and a Mile board; they bear from St. Martin's head in Scilly N.E. distance 3 Ls. they are very dangerous, because they lie so much in the way.

Observations of the Setting and Parting of the Tides at the Lands end of England.

The first Place for the Beginning for the Flood in the W. of England is at the Long-Ships; at this Place the main Land divides the Stream, one part setting to the Northward, and the other to the Southward; at Full and Change the Flood begins E.N.E. and sets nine Hours to the northward; and from the Long-Ships to the Rundle Stone and Gulf; the Tide sets S.E. three Hours: so that 'tis high Water by the Shore before the Flood sets to the southward. At the Seven Stones, and between Scilly and the Lands-end, the first of the Flood sets N.W. and ends in the N.E. nine Hours; and the Stream begins to set to the southward at high Water, which is E.N.E. a-shore.

It is high Water at the Gulf at Full and Change E.N.E. and the Tide fets to the castward till half Ebb a-shore at Mounts Bay; the N. Stream begins in the N.W. and ends in the N.E. nine Hours, till it is high Water a-shore.

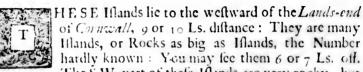
Water; the Spring-Tides rise above 3 Fa. Almost all the way from the Mount to the Lizard the Shore is full of Rocks.

From this Bay to the Lands-end is all a bold Shore, distance a Ls. About a Mile and half from the Point due S. is the Rundle Stone, a Rock which shews above Water at half Tide; tho it is so near the Land, you have 20 Fa. Water between From the Lizard to the Landsend the Course is W.N.W. chistance a Ls.

A little to the westward of the Lizard is a small Island with a Church upon it, call'd St. Clement's, which is the Mark for the several Anchorings in the Bay, as above; it lies just before the little Town of Monsebole, where there is a large Bay and good anchoring, in 7 to 8 Fa. and is a safe Road, except the Winds are at S.E. or E.S.E. which blow right in, and of course make a high Sea.

The Gulf is another Rock, but always above Water; it lies from the Lands-end Point S.W. diffance 3 Ls. 'tis fo steep too on every side, that there is 40 Fa. Water within a quarter

Directions for Sailing to and from the Islands of Sounds and Passages among those Islands, and



The S.W. part of these Islands are very rocky, but very bold. On the southermost big Island, there stands a high Light-house, erected by the Corporation of Trinity-bonse at Deptsord; it is a most excellent Light, and may be seen 6 or 7 Ls. oss. Before this Light-house was erected, there was not a Winter but there were some Ships cast away; but since the erecting of it, there hath not a Ship been lost but by Ignorance: So that Navigation is much oblig'd to the great Care

of the Trinity house Masters in creeting this Light. The principal Road for Ships is called St. Mary's Road; and the best and most common way to go into it, is St. Mary's Sound, between St. Mary's Island and the Island Gugh: Being to the castward of that Island, you must run in at the S. side of St. Mary's: You may know St. Mary's Island by the Castle, and two Windmills which stand on the S.W. part of the Island; run boldly in with the Mills, keeping close by St. Mary's fide, which is very bold. In the fair Way between Penmis Point and the Gugh, lies a Ledge of Rocks called the Sparish Ledge, on which is but fix Foot at low Water; therefore keep close to Pennis, and then steer away for the High Land, on which stand the Castle and Windmills, giving them a fair Birth to avoid the Woolpack, which is a funk Rock close by the S. end of the Hugh. You may boldly fail within a quarter of a Mile of the Hugh, from the Woolpack to the Stevern; and that will carry you clear of Bartholomew Ledge, which hall but fix Foot at low Water, and lies S.S.W. from

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s St. Mary's iugh: Being t the S. fide and by the , part of the cby St. Maetween Pens called the ater; thereor the High giving them k Rock close ail within a pack to the mew Ledge, S.S.W. from

the Stevern, about half a Mile from the Stevern and the Gugh; when you have the Light-house S.W. by S. then you are abrest of it. There are two leading Marks to avoid the Spanish Ledge, and Bartholomew Ledge: keep the high Land of Sampfon on the Stevern, and that will carry you clear of the Spanish Ledge; and being past it, then keep Castle Bryer, which is a high round Rock on the low Land of Sampfon, and that will carry you clear of Bartholomew Ledge; but if you are not fure of knowing these Marks, I advise you to hold to your former Directions, of keeping a quarter of a Mile from the Hugh; or if you keep fight of the Vanes of the Windmills, but not the Mills, that is, keep fight of half the Vanes above the Lands, and that will carry you between Bartholomers Ledge and the Stevern. If you will fire a Gun, and make a Whaff, you will have a Pilot come off. Being about the Stevern Rock, steer into the Road, and bring the Nut Rock W.N.W. or N.W. by W. about half a Mile from the Rock, or a quarter of a Mile; or bring the Cattle SSE, and anchor in 5 Fa. at low Water, or 7 or 8 at high Water. Here you may ride well for all Winds but S.W. Winds, which bring in a great Sea. It flows here at Full and Change E.N.E.

There is a finall Pier at the Hugh Town, where finall Veffels he a-ground at low Water; it is a good place to clean,

wash, tallow, or stop Leaks, &c.

Crow-found lies at the North end of St. Mary's Island, and is a barr'd Channel, where at low Tide there is not above four Foot Water: Therefore to fail in here, you must take the Tide; failing close by the North end of St. Man's; off of which Place lies a fandy Pomr, and that makes the Bar. Being over the Bar, there hes a Rock a quarter of a Mile from the

Fall /

Directions for Sailing to and from the

Shore, called the Crow; it is above Water at half Tide. Between it and the Shore is no more than 6 or 7 Foot at low Water. To fail between this Rock and the Shore, you must keep within half a quarter of a Mile of the Shore, or a Cable's length; but I advise 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.

Broad-found is dangerous for those that are not acquainted: there are two Channels that lead you in, the S.W. Channel and the N.W. Channel. To sail in at the S.W. Channel, which is the best of the two, you must sail between the Bishop and the Crim, which are the two Westermost Rocks of Scilly, and are a good height above the Water: Then steer in N.E. by E. keeping the Islands of Great Gannely and Great Gannick open and shut of St. Mary's Island: and with this Mark you run in amongst many Rocks, very terrible to behold, and the Marks difficult to be known; therefore I advise none to sail in here without a Pilot from the Island.

Smiths-found is likewise dangerous, and very narrow. This Sound lies on the West-side of the Island of Agnis, on which stands the Light-house. The Mark to sail in, is to bring Castle Bryer, which is a high round Rock above Water on the great Smith, as you may see in the Charts: and this Mark will carry you in between St. Agnis, Melledgan, and a small Rock called Mentpingo; and being between the Island St. Agnis, and the Island Annet, steer first between Annet and the great Smith Rock, and then being about the Rocks, sleer in for St. Mary's Road as before.

New Grimsbay is a Road, or rather a finall Cove between the Island of Tresco and the Island of Bryer: There is no danger in going into this Place, it is narrow indeed, and only sit for small Ships; you anchor before the Castle in 5, 6, or 7 Fa. at low Water. It is dry between Tresco and Bryer.

Old Grimsbay is a Place where small Vessels may ride: there are two Channels in and out, and very narrow, and not to be

made ule of except you have a Pilot.

It is high Water at all the Islands of Scilly at Full and Change, half an how past Four, that is E.N.E: The Spring Tides rife and fall 21 and 22 Foot, and the Neap Tides 15 and 16 Foot.

The Channel Tide or South Stream fets out of St. Mary's Sound from half Flood to half Ebb: The West Stream comes not St. Mary's Sound from half Ebb to half Flood, and runs

out to Broad-found.

Note, That about Scilly, and for 6 or 7 Ls. to the Westward of it, and from the Islands to the Lands-end of England, the N. Stream runs 9 hours to the Northward, and begins to set to the Northward the last quarter Ebb, beginning to set to the NW. and so altering till it ends in the N.E. at which time it will be high Water ashore at Scilly; and then the S. Tide comes and runs 3 hours to the Southward.

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probable, may Nor is this the Channel o not long fine wreck upon tl ly departed fr the only Caul it concurr'd in Survey of the done for our o ing Pilot, and the Tides in t true Courfe fr Gasket Rocks. times, when Westerly, was Courfe, and w very proper fo wholoever flee nel, tho never fall in with th lows therefore Courfe must b S.W. which C bead, will care bout midway which are about

Note, That England, the erly, and year in 6 years.

Thus far Capt

fail, alters their Lat. above 10 Min. fo that if they mils an Observation for 2 or 3 days, and do not allow for this Variation, they fail not to fall to the Northward of their Expectation; especially if they reckon Scilly to he in or above 50 deg. This has been for some time attributed to the Indrast of St. George's Channel, the Tide of Flood being supposed to set more to the Northward than is compensated by the Ebb setting out: but the Variation being allow'd, it hath been found that the faid Indraft is not fo fenfibly felt; and the Ships fleering nine hours E. by S. for 3 hours E. do exactly keep their Parallel. This Practice is therefore recommended to all Masters of Ships, who are unacquainted with the Allowances to be made for the Variation; as also that they come in out of the Ocean, on a Parallel not more Northerly than 49 Deg. 40 Min. which will bring them fair by the Lizard: for the the Light-houle on St. Agnes Island be a sufficient Security against the Dangers of Scilly when the Air is clear, yet in Seas hibject to thick dirty Weather, and wherein the Fogg Banks are fo frequent, it is not fafe to trust a Ship in the Night near its Latitude, upon the Expectation of feeing the Light: which Expectation, 'tis very probable, may have occasioned the loss of many Ships.

Nor is this the only Danger to which Ships are exposed in the Channel on account of this Change in the Variation: for not long fince we have had more than one Inflance of Shipwreck upon the French Coast and the Gaskets, of Ships newly departed from the Downs: and the perhaps this were not the only Caufe of those Losses, yet it cannot be doubted but it concurr'd in this Dilaster very much; for by the late curious Survey of the Coast of France, compar'd with what has been done for our own by Capt. Collins in his Great Britain's Coafting Pilot, and others, and by my felf, in a late Map describing the Tides in the Channel of England, it will appear that the true Course from the Land of Beachy, or Denge Nefs, to the Gasket Rocks, is but W.S.W. half Southerly; which in former times, when the Variation was as much Eafterly, as it is now Westerly, was about S.W. by W. by Compass, and then a W.S.W. Courfe, and which was thence called the Channel Courfe, was very proper for all Ships bound into the Ocean; but at prefent, wholoever steers by Compass a W.S W. Course, in the Channel, tho never fo near to the Shore of Beachy, will not fail to fall in with the Gaskets, or rather to the Eastward. It follows therefore, that as the Compals now varies, a W. by S. Course must be accounted the Channel Course, instead of W. S.W. which Courfe, with a reasonable Offing from Beachybead, will carry a Ship fair without the Isle of Wight, and about midway between Portland Bill and the Gasket Rocks, which are about 15 Ls. afunder, and nearly in a Meridian. Thus far Capt. Halley.

Note, That at London, and in and about the Channel of England, the Variation has for these 50 years last been Westerly, and yearly increases that way at the rate of about a Deg. in 6 years. How long it will continue to do so, and how

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You may fee the Islands of Scilly from the S. in 60 Fa. Water, yellow landy Ground; at which time you will be 6 or 7 Ls. off; and from the N in 60 Fa. about 6 or 7 Ls. off, outy sandy Ground: 20 or 22 Ls. W. by N. and N.N.W. from Scilly, is a Bank on which is but 50 to 52 Fa. Water; and be-

tween Scilly and this Bank is 65 Fa.

There has been a very exact Account given by Capt. Edmind Halley of the Change in the Variation of the Compals for some years past in those Parts; which causes many good Sailors to mistake in their Accounts of Distances, and especially in the Latitudes of the Lazard, and of the Islands of Scilly. We think we cannot omit giving some part of that Account, as it is published from his own Observations, that the careful Navigators may be sufficiently warn'd to keep an accurate Account of those Changes for their own Sasety, in their passing up and down the Channel.

For feveral years last past, fays the Captain, it has been obferv'd that many Ships bound up the Channel, have unexpectedly fallen on the Islands and Rocks of Scilly, or to the Northward thereof; and if they have escaped Shipwreck, have been forced to run up the Briffel Channel, not without great danger; and many others have been loft in fliving too late to avoid it. The reason of all this, is without dispute from the Change in the Variation of the Compais, and from the Latitude of the Lizard, and of Scills, being laid down in the Charts too far Northerly, by near 5 Ls. For by undoubted Observations the Lizard lies in 49° 55 in the middle of Scilly due W. therefrom; and the South part thereof nearest 490 50 m. whereas in most Charts and Books of Navigation, both of them have been tallely land down, to the Northward of 50 D. and in some full Nor was this without a good Effect, fo long as 10 D. 10 M the Variation continued much Easterly, as it was when thefe Charts were made; but now fince it is become Westerly, as it has been ever fince the Year 1657, and is at this prefent Year 1-16, no less than 1 Deg. All Ships standing in and out of the Ocean Eaft, by the Compais only, and without having a good Observation, go more than three quarters of a Point to the Northward of their true Courle; which every 60 Miles they

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Of the Settings of the Tides, and their Fluxes in these Parts; as also in what Depths to look out for Land in the Sound.

At Helford and the Lizard E. by N. in Mounts-Bay, and at the Lands-end of England, a W.S.W. Moon makes full Sea: In Scilly an E.N.E. Moon makes full Sea: To the Scaboard of the Islands 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 Ebb At St. Ives an E. by N. Moon; and at Padfline, S.W. Bernstable, Swanzey and Milford; also at Lundy and Minbead an E. and W. Moon make High-water; at Briftel an E. by S at Holy-head and Chester-bar S.S.E. at Liverpool S. by E. at Il'hitehaven and the Isle of Man S.E. by S.

You must see the Island of Scilly on the S. side in 52 Fa. W.1ter; and the Ground there is ftony, with some red Shells. The Lands-end of England may also be seen in 52 Fa. Water. There is a Bank 21 or 22 Ls, W. by N. or W.N.W. from Scilly, on which is but about 50 Fa. Water; but between this Bank and

Scilly there is 60 Fa. Water.

The Start, and the Hills at Dartmouth, may be look'd for in 45 Fa. and when you are due S. of Plymouth, you may tee the Hills there in 50 Fa. they show themselves like two Hills, it being high double Land.

The fame double Land you may fee also when you are off of Fower, and all the way West till you come right thwart of

Dartmouth.

The Dead-man may be feen in 24 Fa. thwart of the Start Point: you will have 3 Fa. 3 Ls. from the Shore, fandy Ground.

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Sailing Directions for the Bristol Channel, and round b Coast of Scotland.

W good Observation, are satisfy'd that you are gotten within the King's Channel, for which the Directions are as above, you may then fland away N. of N.E.

to make the Land; looking well out however for the Light-

bonfe of Scilly, left you should be mistaken.

But if you are bound for the Brifiel Channel, take care in time, and keep to the Northward when you are in the Lat. of 49 1, or fooner. As foon as you have any Soundings, then fail E by N. or E.N.E. till you make Scilly Light, S.E. unless you are to the northward before, when perhaps you will find your felf in the Latitude of Cape Clear, distance about 25 Ls. Then fland away S.E. by E. till you find your felf in the Height of Scilly, and then ENE when you will make Cape Cornwall, or some other Land on the N. Coast of that County.

Tho you should endeavour to make the Isles of Scilly, you are in no danger; for you may fee the Islands to the northward 6 or 7 Ls. in the Day, and the Light of Scilly almost as far in the Night; But if not, come no nearer than 60 Fa. and you are in no danger. It is an excellent Light, and is well

ferv'd.

N. E. If any Ship bound up the King's Channel misses the Soundings, and happens to be driven into the Briffol Channel, the best way is, as soon as they discover where they are, to stand over for Milford Haven, because there you are fure of a fate Road, and may come our with any Wind, to make for the right Channel; whereas if you run up to Lundy, or any where on the English Coast in the Briftol Channel, you will be fo far in, that you may have great difficulty to get about.

When you are entred into the Bristol Channel, and have made the Land, the first Place on the S. Shore is St. Ives, a iniall Tide-Haven; but there is a good Road in the Bay, where you may anchor in 10 to 15 Fa. From Cape Cornwall to this Bay the Courfe is N.E. by E. and E.N.E. diftance 5 Ls. the Bay of St. Iter is about 4 Miles broad. At the E. Point lies an Island call'd Godrery, where is a great Ledge of Rocks stretching out 2 Miles into the Sea N.W. some of them are feen at half Tide If you are bound up the Channel, keep a good Offing, for those Rocks are very dangerous; but if you are to go into the Bay, keep to the W. Point, and you go in A northerly Wind makes a great Sea in the Bay.

N.E. from St. Ives is Padstow, distant 13 Ls. One League fhort of the Opening is Tregarnon Point. All the Coast hither is full of Rocks and Cliffs, with fome fandy Bays, but no Port or Harbour, therefore 'tis best to keep off; yet the Shore-

ward, till ye it to for 3 or, a Hill, on to Illand; or br Point of the that fide of th Lead going. not lefs than 7 cannot come t Point, which where you ar Water, that y take a Pilot to tol. Hung R the Shore-fide. go up to the C to go above.

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If you are Chepflow, in Wales, from Haven, you Coast of Wal nor has it bed

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l, and round by St. George's Channel to the West of Scotland.

ward, till you bring the faid Flat Holme S.W. and keep it to for 3 or 4 Miles, till you bring a Mill that stands on a Hill, on to the W. end of a Land that shews like an Island; or bring the Mill S.E. by S. then you are past the Point of the English Grounds. Then steer away E.N.E. on that fide of the English Grounds which are flat, and keep the Lead going. The Tides rife here prodigious high, at a Spring, not less than 7 and 8 Fa. so if you bring a Tide with you, you cannot come to any danger. Then steer away to the Poslet Point, which is sleep 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 you into Hung Road, and so up to Briftol. Hung Road is a Place where the great Ships lie a-float by the Shore-fide, and there careen, having no Dock; leffer Ships go up to the City of Briftol. Those Ships that have occasion to go above King Road up the Severn, or up to Chepflow, muit take a Pilot.

Note, The Tides are very strong in all the Severn.

There are feveral little Ports and Places on the Welch and English fides of the Severn; but being only for finall Vessels, and that such as have occasion to make use of them always take Pilots. I need not describe them. In going up and down the Severn you must be very careful to keep the Lead going, by reason or the Violence of the Tides, and especially when you stand over to the Welch Sands.

There are several Ports on the English Coast also between Lundy and Hung Road; such as Barnstable, Usarcomb, Minehead, Bridgewater. &c. But as there are Pilots ready for them all, and that no Ship goes in without them, there is no need for particular Directions; 'tis sufficient to say there is very good riding in the Bay without the Bar off of Barnstaple, as likewise off of Islancomb, where there is 8 to 9 Fa. at half Flood, and good Ground.

There are prodigious Tides in all this Channel, but particularly at the *Flolmes*, as is faid above, and all the way up the Severn: 'Tis the like in proportion in the Ports of Bridgewater, Briflol, and Chepflow: Between the Holmes and Hung Road the Tides rifes above 40 Foot right up and down, and runs like a Sluice.

If you are bound higher up, either into the Severn, or for Chepflow, in the River Wye, or to any of the Ports of South Wales, from the Mouth of Wye to Swanzy; or to Mulford Haven, you must take a Pilot at Hung Read; for all the Coast of Wales is very difficult, full of Rocks and Shoals; not has it been ever so perfectly Juryev'd as it ought to have

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

When you are entred into the Bristol Channel, and have made the Land, the first Place on the S. Shore is St. Ives, a small Tide-Haven; but there is a good Road in the Bay, where you may anchor in 10 to 15 Fa. From Cape Cornwall to this Bay the Course is N.E. by E. and E.N.E. distance 5 Ls. the Bay of St. Ites is about 4 Miles broad. At the E. Point hes an Island call'd Godrevy, where is a great Ledge of Rocks stretching out 2 Miles into the Sea N.W. some of them are seen at half Tide. If you are bound up the Channel, keep a good Offing, for those Rocks are very dangerous; but if you are to go into the Bay, keep to the W. Point, and you go in clear. A northerly Wind makes a great Sea in the Bay.

N.E. from St. Ives is Padflow, distant 13 Ls. One League short of the Opening is Tregarnon Point. All the Coast hither is still of Rocks and Cliss, with some sandy Bays, but no Port or Haibour, therefore its best to keep off; yet the Shore is bold, and there's no danger but what shews it self. If you would go into Padslow, you must observe four White Rocks off Tregarnon Point, which are called the Cow and Calves. The Haven of Padslow is a Bar, and the Entrance very narrow; therefore take a Pilot at the casterinost Point

call'd Poronean.

N. B. The Tide rifes in Padjlow Haven 22 Foot.

Two Miles from Padflow Haven is another Haven call'd Port Isaac, N.E. half E. from St. Ives, distance 14 Ls. where a Vessel of 200 Tun may, upon stress of Weather, go in at high Water, and lie on Shore upon the Sand, out of the Rage of the Sea, which is very violent in all this Channel. It is but a Fishing Town it self, but several good Ships belong to it

which use the Bristol Trade.

Hartland Foint is the next good Road to Port Islanc: The Course is N.E. by N. 11 Ls. directly opposite to the Isle of Lundy, which lies due N. distance 3 to 4 Ls. Lundy lies in length N. by W. and S. by E. the English side of the Island is bold and safe; but on the Welch side 'tis soul; yet there is a very good Road for westerly Winds, with 10 to 12 Fa. Water. It lies in the sair way up the Channel; you may go safe on either side, but go no sarther off on the Welch side than 3 Ls. for the Welch Shore is soul and rocky.

If you are bound to Briftol from Lundy, fleer along the English Coast, leaving the Ports of Barnstaple and Bidisord on the Starboard-side, till you come up as high as Minchead or Portiock; and then steer away N.E. till you come in sight of two small Islands called the Holmes. The southmost next the Shore is called the Steep Holme, and is high; and the other the Flat Holme, and is low. You may go safe and in deep Water between them. Keep nearest the Flat Holme, which is the steepest side; you may san close to it without any danger. Being up with the Flat Holme, steer away to the north-

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Lundy and Hung Road; such as Barnstable, Ilfarcomb, Minebead, Bridgewater. &c. But as there are Pilots ready for them all, and that no Ship goes in without them, there is no need for particular Directions; 'tis sufficient to say there is very good riding in the Bay without the Bar off of Barnstaple, as likewise off of Ilfarcomb, where there is 8 to 9 Fa. at half Flood, and good Ground

There are prodigious Tides in all this Channel, but particularly at the *Holmes*, as is faid above, and all the way up the Severn: 'Tis the like in proportion in the Ports of Bridgewater, Briffol, and Chepflow: Between the Holmes and Hung Road the Tides rifes above 40 Foot right up and down, and

runs like a Siuce.

If you are bound higher up, either into the Severn, or for Chepflow, in the River Wye; or to any of the Ports of South Wales, from the Mouth of Wye to Swanzy; or to Milford Ilaven, you must take a Pilot at Hung Road; for all the Coast of Wales is very difficult, full of Rocks and Shoals; nor has it been ever so perfectly survey'd as it ought to be, or so as that it may be depended upon; the Sands also shift often by the Fury 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 small Vessels.

Coasters and Colliers, so that they are all Pilots.

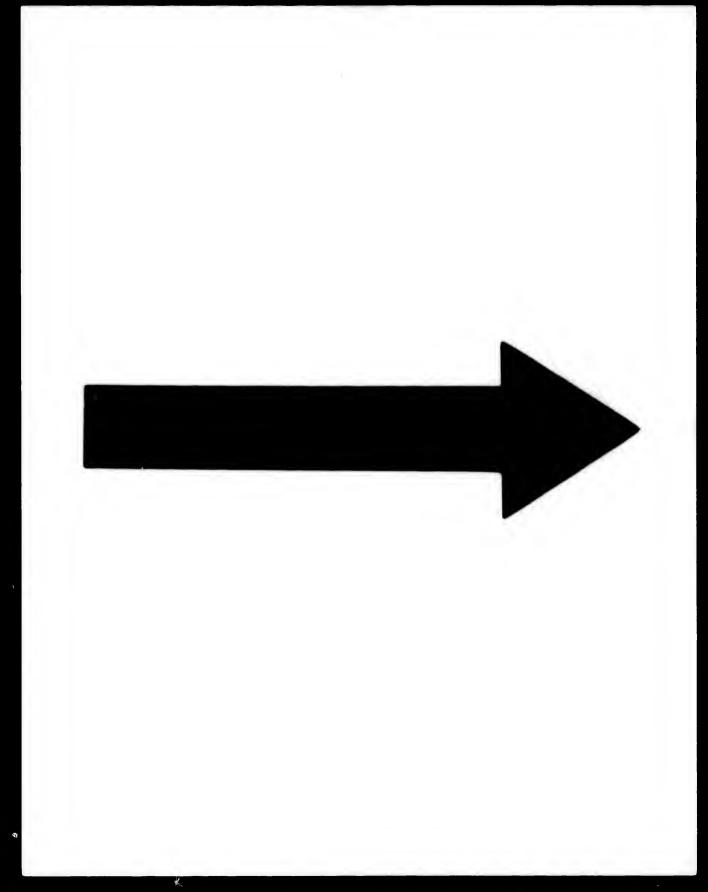
N. B. All great Ships going up or down the Bristol Channel, keep over to the English Coast, the Welch Coast being so very soul and dangerous.

The small Ports between the Month of Wye, and Milsord Haven are, (1.) Cardiss: The Course from the Flat Holmes or Hung Road is N.N.W. there is a good Road before the Place. (2.) Neath, a Port chiefly for Colliers, distant from Cardiss 11 Ls. and something more; between which and Cardiss is a large Bay call'd after the Name of the Port, Cardiss Bay. (3.) Swanzey, bearing from Neath W. by S. 4 Miles. (4.) Caermarthen in another deep Bay; the Naes above Cardiss, and the Worm-head S. of Swanzy, make Cardiss Bay; and the Worm-head E. and the High Lands near the Rock Crow call'd St. Gawen's Point, make the other large Bay, which is call'd Tenby.

About 3 Ls N.W. by N. from hence, is the Entrance into Milford Haven, which is very easy to be known, having three Islands to the N.W. all in fight, viz. Scoockham, Scaumore, and Gresholme; also the Isle of Lundy S.E. or S.E. by E. You may know the going in by an old Light-honse Tower on St. Anne's Point; also two old Black-houses or Forts, one on each fide, on the Cliffs; likewise a small Island call'd Sheep Island, just at the Entrance on the E. side, and another just within call'd Rat Island like the Mew-stone at Plymouth

Milford is certainly the best Harbour in the three Kingdoms, there being no manner of danger in failing in or out of it; so that you need no Pilots, and may turn in and out with fasety as you will, and when you will, with almost any contrary

Winds,



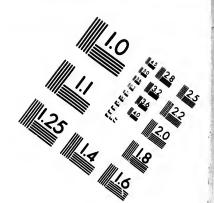
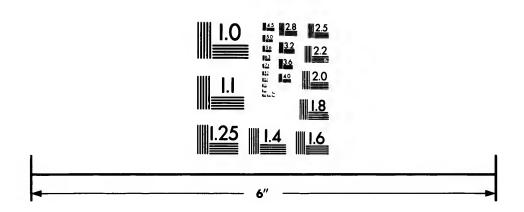


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Directions for Sailing on the Weste

Winds, taking but the Tide; and this as well by Night as by Day: When you are enter'd into the Harbour, you may anchor where you pleafe, according as your Ship is in bigness; and if a Ship in distress comes in without any Cable or Anchor, she may run a shore on soft Ooze, and there lie with safety till she is supplied.

The Spring Tides rife 36 Foot, and the Neap above 26; fo

that you may lay Ships a-shore at any time.

But that which makes this Harbour more excellent and ufeful than any other in these Parts of the World, is, that in an Hour's time you are in and out of the Harbour into the Sea, and in the fair way between the Lands-end and Ireland; also it lies in the Mouth of the Severn: You are in 8 or 10 Hours, if you please, over on the Coast of Ireland, or about the Lands-end in the English Channel: Likewise you may get to the westward out of this Place much sooner, than when you came from Plymouth, Fey, or Falmouth.

The Islands and Rocks to the westward of the Entrance to Milford Haven, mention'd above, are very needful to be known, because from Milford Haven to St. Davids is a much frequented Place, by all the Ships which use the Trade be-

tween this part of Britain and Ireland.

Scookham is the first; it lies W.N.W. from St. Ann's Point, going into Milford, distance a League and half. And Scanmore is a large Rock rather than an Island, lying above Water, a League farther N.N.W. from Scookham, and W. from St. Bride's head; it is bigger than the Island Gresholme: there is likewise a great high Rock to the westward of both the other 2 Ls. rather less. There are good Channels between them all, and they are steep too, very bold, having from 10 to 20 Fa. in the fair Way.

Between Scaumore and the Shore is a little Island call'd the Middle; about which, and along the Shore of St. Brides-bead, 'tis all dangerous, full of lunk Rocks, and very difficult. There is a small Rock call'd the Barrel, which bears W. and W. by N. from Gresholme about a League; and another which hes 2 Ls. due W. from Gresholme, call'd the Hatts:

Both of them are sleep too.

Another Rock lies off at Sea 2 \(\) to 3 Ls. W. of *Grefholme*; tis foul and rocky a Mile or more from it, especially on the W.N.W. and N.W. end.

N. B. The Tides run violently strong among all these Islands and Rocks.

Due N or N. by W. northerly from Scaumore, is an Island call'd Ramsey, or Ram's Pye, distance 2 Ls: Between them is a deep Bay, by some call'd the Broad Bay, by others St. Brides Bay; and on the N. of the Bay lies St. Davids, a little City, samous for being antiently the great South Passage or Ferry to Ir claud, the new much out of tife.

There is very good anchoring in any part of this Bay, in 7 to 10 Fa. The westerly Winds indeed make a great Sea in the

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Traeth Haven. On the N. side of this Bay is good riding, in 7 to 10 Fa. Water; and 'tis often made use of by Ships in stress of Weather, bound either to or from Ireland, especially to Ireland. If a N.W. blows very hard, Ships bound from Chester to Dublin which are often driven back, are glad to run away afore it for Barsey and this Bay; and in a S.W. Wind it has been the same with the Coal Ships bound from Swanzey for Dublin: Also under the Islands of Stidwall is good anchoring, and safe from N.W. and Westerly Winds, but they are open to the S.

West from Stidwall is Barfey Island, which makes the N. Point of Cardigan Bay; and within the Island is good anchoring in a little Bay call'd Aberdaron; but great Ships in case of hard Weather care not to run in, because the Entrance is difficult.

N by E. from Barfey is Holy-bead, distant 12 Ls. Between the two Points is Carnarvan Bay, being at the S. Entrance of the Channel which runs between the Isle of Anglesey and the Main, and makes Anglesey be an Island. There is a tolerable Harbour at Carnarvan; it has a Bar, where is but 7 to 8 Foot at low Water; but the Tide rises so high, that at half Flood almost any Ships may go in or out; however 'tis very sit to take a Pilot.

Likewife if any one would pass thro' that Channel N. to Beaumoris, and out at Priestholme, or from Beaumoris out by Carnarvan Bar, which I have known good Ships do, they must take Pilots: for the there is Water enough for any Ship at high Water, (for the ordinary Springs flow here 4 Fa. and better) yet the Tides run so strong, and the Shore is so full of Rocks and Shoals, that it is exceeding difficult; particularly there is a Flat in the Middle of the way, call'd the Swilly, which is very dangerons.

There is very good anchoring in Carnarvan Bay, off of the Bar, in 5 to 10 and 15 Fa. N.W. from Carnarvan Bar is Italy-head, on a finall Ifland W. of Anglesey Island: The Shore is all foul, and very dangerous, especially with the Wind at S.W. But from the Point of Carnarvan Bar fleer away N.W. keeping a good Osling, you may go safe to Holy-head: The Town and Harbour of Holy-head is on the other side of the small Island, to the N.E. from the Carren Point.

The *Head* it felf is not the farthest part of the Island; but there are two Points, one call'd the W. Point, the other the N. Point, with a little Island lying off before either of them, one call'd the *North Stack*, and the other the *South Stack*. You may fail from the first due N. to the last without start, the Shore is bold and safe.

NE. from the N. Point of the Island, distance 2 Ls. lies Carren Point, being the northmost Land of Anglesey. A little Mile from the Shore, NE. from the Point, lies a Rock above Water, call'd West Monsé; and 2 Miles N. from it a Shoal, with but 2 Fa. on it, call'd the Cele. The fair Way lies between them to Priestholme, a small Island lying at the Entrance of the Bay of Beaumoris, being the other End of the Water, which cuts off the Island Anglesey from the Main.

and W. by N. from Gresholme about a League; and another which has 2 Ls. due W. from Gresholme, call'd the Hatts: Both of them are fleep too.

Another Rock lies off at Sea 2 1 to 3 Ls. W. of Gresholme; its foul and rocky a Mile or more from it, especially on the

W.N.W. and N.W. end.

N. B. The Tides run violently strong among all these Islands and Rocks.

Due N or N. by W. northerly from Scannove, is an Island call'd Rangley, or Ram's Fye, distance 2 Ls: Between them is a deep Bay, by some call'd the Broad Bay, by others St. Brides Bay; and on the N. of the Bay lies St. Davids, a little City, samous for being antiently the great South Passage

or berry to li cland, tho now much out of use.

There is very good anchoring in any part of this Bay, in 7 to 10 Fa. The westerly Winds indeed make a great Sea in the Mouth of the Bay, but there is Shelter from them also under Ranfey Ist nd. There is a narrow Channel between Ransfey and Si Davids-bend, but its not much us'd except by the Coasters, and those who are very well acquainted. The Maseum is a great sunk Rock, which some Pilots say lies off of Ransfey 5 Ls. N.W. northerly; and others say there is no such Rock, or at least that they could never find it.

This Island of Ramfey is call'd the S.W. part of Wales: But if 'tis objected that it is separated from the Land, then St. Davids head is the S.W. Point; but the Sailors call the Island the S.W. Point, and so it must pass; as Cape Clear is called the South-Westermost Point of Ireland, whereas it is an Island 6 or 7 Ls. from the Main. From Ramsey Point to the Southmost Point of Ireland, called Carnarost, a little S. of Westord, the

Courfe is W.N.W. diffance 16 Ls.

N.W. from Ramfey lie the famous Bishop and his Clerks, distance i L. These are Rocks which have often been fatal to Ships coming out of the Sea, from the Coast of Ireland; and as they are at the Extremity of the Isle of Britain that way, the Land salls off just from them, and trends away N.E. on the West Coast of South-Wales: And here begins that we

call St. George's Channel.

You have a bold Shore here to the S. Point of Cardigan Bay, distance 7 ½ Ls. This Cardigan Bay is a very large Gulph of the Sea, bearing in far upon the Land, stretching N. and S. from Cardigan Point to Bas scy Island, 12 Ls. due N. In the Bay are several little Tide-Havens and Places only sit for small Vessels, and most of them are barr'd too, scarce worth naming, for here is neither Trade, or Sea-Port for Trade; such as Kings Chapel, Aberarthy, Lanrayled, Aberistwyth, Aberdovy, Barmonth, Landanog; Places hardly heard of by Seamen, yet needful to be named too. At the N. part, in a deep Bight, you have a Bay within a Bay, a long Gulph running in N.W. by N. and at the farthest End tis call'd Pulbelly Bay. At the Bottom of this Bay there is a small River which comes into the Sea with a full Channel, and makes a pretty good Haven; 'tis call'd

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Shore is all foul, and very dingerous, especially with the Wind at S.W. But from the Point of Carnarvan Bar fleer away N.W. keeping a good Ofling, you may go fafe to Holyhead: The Town and Harbour of Holyhead is on the other fide of the small Island, to the N.E. from the Carren Point.

The Head it felf is not the farthest part of the Island; but there are two Points, one call'd the W. Point, the other the N. Point, with a little Island lying off before either of them, one call'd the North Stack, and the other the South Stack. You may fail from the first due N. to the last without fear, the Shore is bold and safe.

NE. from the N. Point of the Island, distance 2 Ls. lies Carren Point, being the northmost Land of Anglesey. A little Mile from the Shore, NE. from the Point, lies a Rock above Water, call'd West Monse; and 2 Miles N. from it a Shoal, with but 2 Fa. on it, call'd the Cole. The fair Way lies between them to Priestbolme, a small Island lying at the Entrance of the Bay of Beaumoris, being the other End of the Water, which cuts off the Isle of Anglesey from the Main. Your Course to Priestbolme is E.S.E. distance 5 Ls; one L. in the way is the other Rock call'd East Mouse; if you are bound in here, either to Beaumoris or to Conway, there are Pilots always ready, and it is a very difficult Place.

From this Island to Armshead, or Ormbead Point, the Course is E. by N. distance 2 I.s. F.S.E. which carries you into Conway Bar; and from Priest olme F. by N. or E.N.E. carries you to Hyle Lake and the Bar of Chapter: This is a dissipult River, the Entrance wide, but the Channel narrow, the whole Coast being block'd up with Sands; as particularly a great Sand call'd Hyle, which stretches out from the S.W. by W. to E. by S. almost to the Mouth of the Mersey, and the going into Liverpool. On the S. side of this W end of the Hyle lies Chaster Bar: You may have Pilots always at hand to carry you up; so the Entrance, and the River (which is full)

of Sands) is none of our Bufiness here.

On the S. and S.E side of the E. end of IIzle Sand, call'd the East-Spit, lies the Channel call'd IIzle Lake, where great Ships ride on Occasion, waiting for a Wind to go into any of those Waters, either for Chester or Liverpool: Here the Men of War rode, when they waited to carry King IVilliam and his Army to Ireland This Sand of IIzle is dry at low Water, and part of it dry even at high Water, on Neap-Tides.

E. by S. of the E. Point of the Hyle Sand (the Channel of Hyle Lake lying between) lies a great Sand call'd the York, firetching out N.E. to a Point; and then fulls away E. to the N.W. Point of the entrance into the Merjev.

There is a Channel into Liverpool this way along the fide of the Dove, 'tis dry at low Water; but as the Tide flows here 28 Foot on the Springs, and 21 Foot on the Neaps, any Ship may go over at high Water, with a Filot; and no Stranger will venture without.

The deepest Channel into Liverpool is E. of the Dove, called Formby, which is a large Entrance, and where you have 3

* 17

to 5 Fa. at low Water. But as this Passage is not buoy'd or markt out, the great Ships bound for *Liverpool* choose to he at *Hyle Lake*, and go over the Flat as above, oftentimes

lightning their Ships before they go over.

At a Place called the Pyle of Foudry, due N. from the Hyle, dift. 10 Ls it flows 5 \(\frac{1}{2}\) Fa. right up and down on the Spring Tides; 'tis the Southermost Land of Cumberland. All the Coast of Lancashire, which is on the Esside, is void of Ports and full of Sands, except the Opening into the Rivers Ribble and Lune, which goes up the last to Lancaster, and the first to Preston. Opposite to the Ribble Mouth lies Preston Sand, stretching N. and S. 5 Ls. in length: there is a good Channel within the Sand, running along the side of it N. and S. as the Sand lies; where there is 3 to \(\frac{1}{2}\) Fa. at low Water: But as the Tides rise here so exceeding high as to 5 or 6 Fa. Ships go over every thing at half Tide without Fear; yet I would advise no Stranger to stir without a Pilot any where between Holy-Head and St. Bees.

From Holy-Head to St. Bees the Course is N.W. Westerly. Those Pilots who direct us to steer from Holy-Head due North, must needs be strangely mistaken; and whoever follows that Direction in a dark Night or a thick Fog, it may be fatal to them, and run them Bump ashore upon the Isle of Man; and if they were not wreck'd there, they would be in great danger of the King William Sand, off of the N.E. Point of the Isle of Man, which lies S.W. from St. Bees, distant 5 Ls. and lies it self S.E. and N.W. or rather S.E. by E. and N.W. by W. in

From Holy-Head to St. Bees, the distance is 20 Ls. the Courte as above, and from Holy-head to the S. Point of the Isle

length 4 Ls. Some Pilots fay 'tis 6 Ls.

of Man the distance is 13 Ls, the Course due N.

N. from St. Bees Head is the Port of White-Haven, distance 2 Ls. Tis a dry Harbour, and has a small Pier, yet 'tis

Sailing Directions for the chief Han

N the E. side of the *Isle of Man*, about 2 Ls. from the *Calf of Man*, is *Derby Haven*, where is good anchoring for any Wind under the Castle in 3 or 4 Fa. Water; or you may run higher, and anchor between the Perches, and lie a ground at low Wa-

ter. There is also good anchoring quite without in the Road in 10 or 12, or 14 Fa. with good shelter from Northerly

and Westerly Winds.

About 2 I.s. and a half to the Eastward of Derby Haven is Douglas Bay, where you may anchor in 10 Fa. Water; or you may go further up to the Westward, till you bring Douglas Head S.S.E. or S. and anchor in 8 or 9 Fa. secure from Westerly Winds. The Haven is only a fresh-Water River, where small Vessels may go in at three quarters Flood, keeping close to the Rocks; there is 10 or 12 Foot at high Water, but at low Water 'tis dry.

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well known, and much frequented by Ships loading Coals here for Ireland.

There is no River of note here, but a very good Road, and where the Ships take in their Coals; if it over blows, they run into the Haven with the Flood, or fland away to St. Bees, where is very good Anchoring and fafe Riding.

N. B. We do not find any of our Pilots give a Description of the Coast on the British fide beyond Whitebaven, or that the Coast beyond it North has been justly furveyed; except in fuch Surveys as are very antitient, and which by reason of the shifting of the Sands and other Imperfections, in to long time are not entirely to be trufted to. All those Ships therefore that trade farther N. in these Seas, either for Carlifle, Dumfries, Aire, Glasgow, and any of the Ports in the Firth of Clyde, are used to take Pilots either in the Isle of Man, or at White-Haven, if they come from the Coast of England or Ireland, that is, from St. George's Channel; but if they come out of the Ocean from the Southward, 'tis ulual to make first the N. Coast of Ireland, either the Fair Foreland, the Skerries, or the Island of Enstershall; at all which Places they may find Pilots to direct them into Clyde. Likewise if they come from Norway, or the Baltick, to go North about for Ireland, they ordinarily put into the South Channel of the Orkneys, called Pentland Firth, that is to fay, at Kirkwall, or at Stroma in Orkney, or at Dungs. by-head, the N.W. Point of Caithness, where there are good Ports, and at all which Places they cannot fail of skilful Pilots to carry them thro' the Firth, as also by the Western Islands of Scotland, to any particular Port on the Western Coast of Scotland, or to the North of Ireland, and even as far as the Ifle of Man.

the chief Harbours in the Isle of Man.

Ramfey Bay lies at the N.E. end of the Isle of Man; it is a very good Road by reason of a Sand called Ramfey Sand, (or by some Behema Sand) which lies without, and breaks off the Sea; you may anchor in from 10 to 5 Fa. Water. There is at the bottom of the Bay a small River called Selby River, where small Vessels may run in at high Water, and lie dry at low Water. Between the two foresaid Bays Douglas and Ramsey, there is a small Inlet called Laxey Bay, where Ships may anchor in 10, 8 or 7 Fa. Water, with shelter from N. Westerly Winds.

On the N.W. fide, about the middle of the Island, is *Peel Road*, on the W. fide of which is an Island with a Castle upon it: If you bring the Island S.W. about a Mile distant, you may anchor in 10 Fa. Water; or if you go further in till you bring the Island W. you have 7 Fa. It is a good Road for Southerly and Easterly Winds.

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Sailing Directions for the chief I

N the E. side of the Isle of Man, about 2 Ls. from the Calf of Man, is Derby Haven, where is good anchoring for any Wind under the Castle in 3 or 4 Fa. Water; or you may run higher, and anchor between the Perches, and lie a ground at low Water. There is also good anchoring quite without in the

Road in 10 or 12, or 14 Fa. with good shelter from Northerly and Westerly Winds.

About 2 Ls. and a half to the Eastward of Derby Haven is Douglas Bay, where you may anchor in 10 Fa. Water; or you may go further up to the Westward, till you bring Douglas Head S.S.E. or S. and anchor in 8 or 9 Fa. secure from Westerly Winds. The Haven is only a fresh-Water River, where small Vessels may go in at three quarters Flood, keeping close to the Rocks; there is 10 or 12 Foot at high Water, but at low Water 'tis dry.

Directions for coming into the Channel or Sea English Channel, and for failing on between Downs.

HE Mariner having now left the vast Ocean, and brought his Ship into the Soundings near the Land, amongst Tides and Currents, his Art must a little be laid aside, and Pilotage taken in hand; the nearer the Land, the greater the Danger: therefore his Care

ought to be the more, being in Tides ways, narrow Channels, and among Rocks and Sands. The Mariner, however skilful, cannot take it amils, that we recommend to him to be well inform'd of the Courses of the Tides, the Indrasts of Bays and Channels, and especially that he is very sure that his Compasses are true, and in good order, and that he keep his

Lead going on all Occasions.

Particularly he must take great care that no Iron be near the Compass: for after long Voyages, and that the Compasses have been much used, they will grow dull, and yet the Virtue of the Magnet may hold good, and be the same as ever: but that which causeth the dulness, and that the Compass is not quick in traversing, is the Pin's Point (on which the Compass stands) being worn blunt; therefore sharpen it with a Hone or sine Whetstone, with Care and Exactness: and this take for a certain Rule, that the light Card Compasses traverse best in fair Weather, and the heavy Card Compasses best in soul Weather. I mean by the heavy Card Compasses, that which is stiffned with Alaskevy Glass, and a Plate of Steel, which is touch'd by the Loadstone, instead of Steel Wire, which is in the light ones: The heavy Card Compasses are in Brass Boxes, which are made to open to take the Card out,

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Derby Haven is Fa. Water; or ou bring Dou-Fa. fecure from sh-Water River, Flood, keeping high Water, but

Ramsey Bay lies at the N.E. end of the Isle of Man; it is a very good Road by reason of a Sand called Ramsey Sand, (or by fome Behema Sand) which lies without, and breaks off the Sea; you may anchor in from 10 to 5 Fa. Water. There is at the bottom of the Bay a small River called Selby River, where fmall Veffels may run in at high Water, and lie dry at low Water. Between the two forefaid Bays Donglas and Ramfey. there is a finall Inlet called Laney Bay, where Ships may anchor in 10, 8 or 7 Fa. Water, with shelter from N. Westerly Winds.

On the N.W. fide, about the middle of the Island, is Peel Road, on the W. fide of which is an Island with a Castle upon it: If you bring the Island S.W. about a Mile distant, you may anchor in 10 Fa. Water; or if you go further in till you bring the Island 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 Coasts of England and France, to the

ast Ocean, and near the Land, t must a little be ind; the nearer erefore his Care , narrow Chanriner, however nend to him to the Indrafts of ry fure that his

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ron be near the Compaffes have t the Virtue of ever: but that is not quick in pass stands) bee or fine Whetke for a certain best in fair Weaoul Weather. I is stifned 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 Course, and the want of knowing which occasions the lots of many a Ship, especially when you fail close upon a Wind: then if the Tide take you on the Weather-bow, you shall fall much to Leeward of your Expectation; as on the contrary, if it takes you on the Lee-bow, it carries you to Wind-

ward of your Expectation.

Coming out of the Ocean into the Soundings, which you may know by the Water being discolour'd, your best help is a good Observation of the Latitudes; the next Consideration is your Depth of Water, with the Colour and Quality of the Ground. This last some 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 Cast so different from another, and still in the same Depth of Water, that I would not have any to trust to it: only this is generally observ'd, that the Ground to the S.ward on the French Coall is gruffer, that is, the Sand is bigger or more gravelly, there are bigger Shells and more variety than on the Euglish side, with a fort of sharp small things called Needles. W.S.W. from Vshant 8 or 10 Ls. you will have 74 and 75 Fa Water; and 4 and 5 Ls.W. from Ofhant 68 and 70 Fa. W.N W. from Ulhant, 8 or 10 Ls. you will have 70 and 71 Fa. and 4 to 6 Ls. off 65 and 66 Fa.

N.W. from Whant 8 or 10 Ls 70 Fa. at 5 Ls. 64 and 65 Fa. and at N.W. from V/hant about 7, 8 or 10 Ls. from 65 to 68 Fa. and 4 Ls. N.N.W. 60 Fa. North from Vshant 8 or

Directions for Sailing in the British

10 Ls. 64 and 65; and from 3 Ls. to 5 Ls. N. you will have 60 Fa. In these Depths, Bearings and Distances, the Ground is white things like Hakes Teeth, and its rougher than on the *English* Coast; but, as I said before, the Quality of the Ground being so uncertain, is not much to be depended upon.

On the Coast of England the Ground is something a more certain Rule. First, it is finer in general: For 5, 6 and 7 I.s. to the Southward of Scilly, you will have from 50 to 60 La. Water, fine white Sand, with some red and black amongst it; fometimes fome finall Shells, or pieces of Shells; and at other times white Sand only. Keep in the Lat. of 49 deg. 30 min, or 35 min, or 40 min, till you have from 60 to 55 Fa. Water, more or less, as the Tides may be high: for at Scilly and thereabouts the Tides rife above 3 Fa. at Full and Change. I have feen the Light-house of Scilly in Lat. 49 deg. 35 min. at which time the Light-house bore N. by E. about 6 or 7 Ls. off; and at the same time I had 58 Fa. Water, sine Sand with black Speckles, and pieces of Shells. To the Westward of Scilly the Ground is fine grey and white Sand, mingled with fmall 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 Island of Scilly bears S. about 5 or 6 Ls. you will have 53 to 57 Fa. Water: and on that fide you may fee the Light of Scilly in clear Weather 6 or 7 Ls. in the Night. Here it is to be observ'd, that whereas many Ships have mist the Channel, and run to the Northward, (into the Welch Channel, or the Severn) contrary to their Expectation, the cause of it is by the Stream setting 9 hours from the N.W. to the N.E. and but 3 to the S.ward: This Stream 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 1.s. to the Westward of Scilly, and 4 or 5 Ls. to the Southward; and so between Scilly and the Lizard.

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

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Sailing Directions for the Coast of Ireland, from St. M Land of Ireland, to Enstershall near London-D Land North.

Arnaroot is the utmost Point of Land S.E. of the Whole Kingdom of Ireland; 'tis distant from the Lands-end of England about 40 Ls. and just as many Miles from the Lands-end of Wales called St. Dateds being 16 L.E.S.E.

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Lizard bears N. by E. distance about 9 Ls. you will have 55 to 57 Fa. Water: then you will have pieces of Shells of several Colours, thin, small, flaty Stones, and no Sand. Meeting with this Ground, you may stand into the Northward into 50 Fa. Being past the Lizard, if you keep without 40 Fa. Water, you need not fear the Eddistone; you will have 40 Fa. in the Stream of the Eddistone; also if you keep in 35 Fa. then are you within the Eddistone. There is 35 Fa. between the Rambead and the Eddistone.

When you are fure of being past the Lizard, be careful to keep off from the French Shore, for fear of the Rocks called the Gaskets: when you are near them, the Tide of Flood fets in amongst the Islands of Guernsey and Jersey, Sc. You will have deeper Water very near these Rocks, and grusser Ground

than on the English Coast.

From the Start to Portland and the Wight, keep between 40 and 30 Fa. Water, or between 35 and 30, according as you

go up the Channel.

When you come near the Isle of Wight, have a care of the Indrast mention'd before, that fets strong both into the Needles and St. Helens. Those Indrasts have drawn many a good Ship into Freshwater Bay and others, on that dangerous Sand called the Owers, which lies to the Eastward of the Isle of Wight, and where they have been stranded and lost; as you may see in the Description of those Places.

All the last half Flood, or the last quarter Flood, and all the Ebb sets into St. Ilelens; which hath also caused many Ships

to run aground on the Owers.

N. B. The Rules for failing from the Isle of Wight to Dengey Ness, and to into the Downs, may be effectually taken by the reverse from our Directions for failing from those Places to the Isle of Wight; allowing for the one being E. and the other W. Observing also, that if you stand over on the French Coast, there is a Bank in the sair way between Dengey Ness and Bullen Bay, which has but 13 Fa. on it, and which in the Night may cause 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 farthest Part of the

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The fame Mill may be a Mark to avoid the Shoal which lies off of the Point: for as long as you do not lofe 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 past it all, and may go away N.W. and N.W. by W. into the Bay, as the Wind and Tide

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Being to the Southward of Seelly, about Lat. 49 deg. 30 to 40 mm. and having from 60 to 55 Fa. Water, you may keep away E. in that Lat. according as you have Wind or Weather, and in the fame depth: but when you have failed about 15 or 20 Ls. from 60 to 55, or 52 Fa. then if the Weather be clear, you may fleer Northerly till you make the Land. When the

Sailing Directions for the Coast of Ireland, from St. I Land of Ireland, to Enstershall near London-Land North.

Arnaroot is the utmost Point of Land S.E. of the C whole Kingdom of Ireland; 'tis diffant from the Lands-end of *England* about 40 Ls. and just as many Miles from the Lands-end of Wales called St. Da-

rids, being 16 1 L. E.S.E.

From hence to St. Margaret's Bay the distance is but one L. You must keep a small Offing from the Shore, because there are feveral Rocks and foul Ground near the Land; but at a cerram diftance 'tis fafe. There is a double Land which lies withm the Cliffs, and which at one certain diftance may be feen over . cm: be fure to keep to far off, that those double Lands may always appear. If you come to near under the Cliffs as to lote fight of them, you will be in danger.

When you are off of the Bay, bring a large House which stands on the inner Lands into one with the Mill, which you will fee on the infide; then you are right with the Bay: There are 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 funk Rock off of the Bay about two Mile S.S.E. Your fafest way in coming from Carnaroot Point is to go without this Rock; to do which, keep the Tronchin, and the least Island of the Saltees, one in another.

N.E. from St. Margaret's Bay in Grenore Point, distant about half a L. the Land is steep and flat on the top, and there is a Shoal runs off from it into the Sea near a Mile E. by S. dry at There is a double Land here also along the Shore, which guides you to avoid the Shoal; for keeping the inner Land about a Man's height in fight above the outer, you are fafe; or you may (if it be dark) take it from your Depth of Water, keeping no nearer than 6 Fath, or 5 at the utmost, and not without 8 or 9 Fa. lest you fall too near the New Ground.

This New Ground is so steep, that close by it you will have 10 Fa. Water, and upon it not above 2 Fa. When you would go about the Point into the Bay, be fure keep the double Land a Man's height above the outer Land as aforefaid, and keep your Course North till the said high Land comes to the Northward of the steep Point of Grenore, keeping a Mill which is near the faid Point in view, the top of it appearing just over the Point; and wil en you fee the Castle come without the Point, then you are that with the Bay, and keeping your Lead may fail right in

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The same Mill may be a Mark to avoid the Shoal which lies off of the Point: for as long as you do not lose 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 past it all, and may go away N.W. and N.W. by W into the Bay, as the Wind and Tide will allow.

Or thus; keep on N. till a long black House upon that same Land comes out to the West of Grenore Point; then keep in 5 Fa. by the Shore or Shoal, till you come into 6 and 7, and so on to 8 and 9 Fa. and then it will shoal by degrees; or keep on N. till you see another black House come without the Point, then you are past all Danger of the Shoal or of the Point.

When you are come into Grenore Bay, take a Pilot if you are bound to Wexford; the Bay of Grenore is all fafe, you

may anchor from 6 to 3 Fath. where you pleafe.

Off of St. Margaret's Bay E. by S. distant about 2 Ls. lies a great Rock called the Tuskar; it lies in the Sea like the Hull of a Ship with her Keel up, but much bigger; or like the Body of a dead Whale, only that it is not so long. There are also some sunk Rocks on the North side of it coming from Waterford about Carnaroot Point: 'tis best 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, because '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 Ireland.

If you are bound from Grenore Bay to Wexford, you must observe a dry Sand called Henkman's Path, which lies off of the South Point of Wexford Harbour; and upon the North of it lies another called the New Ground, much of the same bigness. If your Ship draws less than 8 Foot Water, you may run in between Henman's Path and the S. Point of Wexford Bay, which is called the Sounder, where you have 10 Fa. at Spring Tides: but if you draw more Water, you must keep farther off, and go round both those Sands; but take heed not to go farther off than 10 to 12 Fa. for sear of the Banks called the New Grounds, which as above is steep too.

In order to know when you are without those Sands called Henman's Path and the New Ground, observe a Hill to the N. of Wexford with a round Hummock, which you will see over the low Lands above the Strand, where there is a Castle: Bring

the Hummock a little to the N. of the Castle, or in case of neectility bring them together, and then you will go clear; but take heed you do not open the Hummock at all to the Southward of the Castle. If it be thick Weather, that you cannot sail by the Marks, keep your Lead going, and keep in 7 Fa. Wa-

ter, and you will go about the Sands well enough.

The best and deep of Channel to go into Wexford, is between Hennans Path and the New Ground Sands, where you have 4 to 5 Fa, all the way. To run thro' here, keep a little Castle which is on the S. Land within the Strand, upon the S. and of the high Land of Wexford, bearing from you S.W. by W. When it stands so, and also betwixt the two Northermost little Sandhills upon the Sounder, then you are thro' the Channel between the Sands, and may go right for the Bar of Wexford.

- N. R. There is on Wenford Bar no more than 16 Foot at high Water.
- N. B. There is a Mast stands on the Tail of the New Ground Sand, being the Foremast of a Ship which was lost there, and is bury'd in the Sand, and where the Ground is very flat. Going towards the Bar therefore, 'tis best keep at a good distance S. lest the Tide horse you on upon the Tail of it.
- N. B. The Channel between thele two Sands is shifted, and hes more to the Northward than it used to do; and the Tail of Hennius Path increases to the Northward, so that in time new Marks must be placed for the passing thro'.

Being over the Bar, you have 3 to 4 Fa. again: then you mill run over to the Foot of the Strand, and then edge to the N. to avoid fome Shouls which lie within the Sounder to theW. Here you may keep in from 10 to 15 Foot Water; the Mark for edging over is thus: Bring a white Castle in a Vale on the main Land on the North side of the Haven, over the steep light of the inner Island, which is on the North Shore, and go W. by N. and W.N.W. with it, till you bring a little Chapel a Within the Land to the Southward of Henford, or till you bring the Chapel a Cable's length to the Northward of the Castle you saw before on the N. side of the high Land S. of Wesford: when these Marks come together, you are above the Sands on the Sounder.

By the fe Marks you will come without the Castle of Wexford to the S. Shore about a Gunshot; then you may fail in by the Castle within the Soundings of the Shore, and anchor in 2 Fa. Water.

To the Southward of those Sands on the Sounder there is a Creek which carries you thro', and where there is more Water

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upon the Sand, which is fleep too and above two Miles long. 1 L. farther N. lies Arklow Head; in this Paffage you have alfo this Mark: Keep Wicklow Head fair within Miffen Head, and you cannot come foul of the Glaskerman; but if you would fail on the East fide of the Glaskerman, then keep Wicklow Head fair without the Miffen Head, and fo you run a Scaboard of it, and go clear also; if you keep it but even with Miffen Head, you will run full upon the faid Sand.

Anklow Head is a foul Point, and at the North end of it lies a flony Ledge, which is very fleep and dangerous, elipecially for Ships from the North. Come not nearer than 5 Fa. you will fee fome fmall Rocks towards the Shore; when they bear W.N.W. from you, then you are past the stony Ledge, and may borrow of the Shore again: But 'tis usual in coming from the Northward, to keep a good Offing, to to avoid them.

There is a fine fandy Bay on the North of Arklow Head, where you ride fafe as you pleafe in 5 to 8 Fa. It is a famous

Bay for fifthing for Herring in the Scalon.

There is a Channel over against Arklow, between the Banks called the Grounds, thro' which you may run with great Safety in 7 to 8 Fa. Water. To pass this Channel, bring a round Hill, which you will see within Land, to bear from you W. N.W. or N.W. by W. and fail in with it, and go clear of the New Ground; but if you bring the round Hill W. and then venture, you go directly upon it.

The River of Anklow lies to the N. of the Point, distant one Mile; there is but one Fa. at high Water in the faid River of Arklow; to that nothing but finall Craft go in there.

From Wexford to Wicklow the Coast is N. by E. they that fail without the Grounds or Sands, must go N.N.E. if they go more to the N. they will be upon the Grounds off of Hick-Some time ago a Ship was loft there, keeping but one Point nearer to the N. and fell upon a Tail of Sand which lies N. and S. thwart of Arklow; the Town lay W. by S. from them as they fat upon the Sand. The Grounds against Wicklow lie 3 Ls. from the Shore, and to the fouthward but 1 L.

North from Arklow lies Miffen had, distance 1 1 L. and 2 ½ Ls. farther lies Wicklow-bead. The former appears of a black Colour; you have 8 to 9 Fa. in the Fair way between them, clean Ground and good Anchoring; only that a Mile fhort of Wicklow-head lies the Wolf, a small Rock close to the Shore; 'tis dry at half Tide: Small Boats may pass within it, but no other. Likewife close to the Point, and running a little out to the fouthward, lies the Horfe-shoe, a stony foul Sand: Keep the high inner Land above the Land of Wicklow, or keep Brah-head Point without Wicklow-head, and you go clear without the Herse-shoe in 5 Fa. Water.

Wicklow-bead makes a little double Hill, within which is a little Chapel: When you fee the Chapel between the two Heads of the Hill, then you are right against the Point; it is fleep and flony. The Town lies to the northward of the

er there is a moreWater

Being over the Bar, you have 3 to 4 Fa. again: then you must run over to the Foot of the Strand, and then edge to the N. to avoid some Shoals which lie within the Sounder to the W. Here you may keep in from 10 to 15 Foot Water; the Mark for edging over is thus: Bring a white Castle in a Vale on the main Land on the North side of the Haven, over the steep Point of the inner Island, which is on the North Shore, and go W. by N. and W.N.W. with it, till you bring a little Chapel within the Land to the Southward of Wexford, or till you bring the Chapel a Cable's length to the Northward of the Castle you saw before on the N. side of the high Land S. of Wexford: when these Marks come together, you are above the Sands on the Sounder.

By these Marks you will come without the Castle of Wexford to the S. Shore about a Gunshot; then you may fail in by the Castle within the Soundings of the Shore, and anchor in

2 Fa. Water.

To the Southward of those Sands on the Sounder there is a Creek which carries you thro', and where there is more Water than in the edging to the Northward. To avoid the Sands, the Mark for this Passage is, to keep the highest Hummock mention'd before right over Wexford Castle; but this Passage is not worth the trouble.

When Ships come out of Wexford, they ought not to lade deeper than 10 foot till they come to the Sounder, where they may ride fafe from all Winds, and take in the rest of their

Eoading.

They that archor before the Bar of Wexford to wait for the FI ed, thould lie to the Northward of the Bar in 8 Fa. there it is clean Ground. There are always two Lights upon the Secuder, to guide the Fishermen in thro' the Channel between the Sands; they that will make use of them, must keep the highest Firelight a little to the Southward of the lowest.

To fail out from the Bar of Wexford to the Sea, your Course is E by S. and so on the contrary to fail in, it is W. by N. betwixt the great Banks called the Grounds: But if you would go within the Bank to the North, you must run along within a Cable's length of the Shore in 6 to 8 Fa. not farther out; 'tis

all clear and fafe, and may be past by Night or by Day.

In this Course about 2 † Ls. from Wexford Bar, you will see an old broken Wall, which looks like the Ruins of a Church: Opposite to this, distant a Mile, lies a Sand called the Rum, or the Ruseb and Rum; you may sail on either side of it, but the safest Channel is between that and the Main, keeping in 6 or 7 Fa. Here within Dunaghmore Point is a small Bay, and to the North of it is a Castle; this Castle is a good Mark to Ships off at Sea to come within the Grounds. When you are without, bring the Castle a little to the Northward of the low Point of it e Bay, and you may run boldly in W.N.W. with 15 to 16 Fathern.

From hence all the way, within the Banks called the Grounds, lies a fair Channel quite to Dublin Bar, in 6 to 8 Fa. Water, feveral small Roads and Bays lying under Shore by the way. The first is a Sand called the Glaskerman, 2 Ls. from Dunaghtone N. you may run along between this Sand and the Shore, but in no more than 8 Fath. if you come to 10 Fa. you will be

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Point nearer to the N. and fell upon a Tail of Sand which lies N. and S. thwart of Arklow; the Town lay W. by S. from them as they fat upon the Sand. The Grounds against Wicklow lie 3 Ls. from the Shore, and to the fouthward but 1 L.

North from Arklow lies Miffen-brad, distance 1 1 L. and 2 1 Ls. farther lies Wicklow-head. The former appears of a black Colour; you have 8 to 9 Fa. in the Fair way between them, clean Ground and good Anchoring; only that a Mile short of Wicklim-bead lies the Wolf, a small Rock close to the Shore; 'tis dry at half Tide: Small Boats may pass within it, but no other. Likewise close to the Point, and running a little out to the fouthward, hes the Horfe-thee, a flony foul Sand: Keep the high inner Land above the Land of Wicklow, or keep Brah-bead Point without Wicklow-head, and you go clear without the Horfe-shoe in 5 Fa. Water.

Wieklow-bead makes a little double Hill, within which is a little Chapel: When you fee the Chapel between the two Heads of the Hill, then you are right against the Point; it is sleep and stony. The Town lies to the northward of the Point in the Bay; there is but 10 Foot at high Water in the Haven, and there is no good anchoring in the Bay: The Ground is hard and rocky, and 'tis not much better without.

Here is a Channel between the Grounds, as at Arklow; to pals which, keep the Caltle of Wicklow, open of the Point, that is mark enough; or keep the Point of Land, which lies a League to the northward of Wieklow, on with the Sugar-loaf? bill, which will then be about N.W. half W. from you; and that will carry you into Wicklow. You have 8 to 10 Fa. in the Channel between the Sands or Grounds.

Four Leagues from hence N. lies Brah Point, being sleep too, and the highest Land on this Coast. Between them lies a finall Fishing Town call'd North Castle, with a finall flat Point. At the Town you have 4 to 6 Fa. but from the Flat Point to Brah Point is 13 to 14 Fa. The Coast trends away N. and N. by W. Southward from this Brab-bead, and opposite to the Sugar-loaf-hill, lies a foul stony Bank, but it has 4 Fa. Water over it. There are three Hills within Land here, call'd the Vineyards; the Sugar-loaf is the farthest of them; bring all the three in a Line one within the other, and keep them to; you may run fafely with it between the Grounds.

You are now pass'd all the Banks call'd the Grounds; and from Brah-head to Dalkey, which is the S. Point of the Bay of Dublin, is but 2 Ls. ; due N. Dalkey is a little Island lying off of the Point call'd Dalkey Point; the Passage between is narrow, but has a good depth of Water; 'tis call'd the Sound of Dalkey, and has 7 to 9 Fa. And there is good anchoring on any fide, either by the Island or the Main: Nay, there is around Rock near the Main, where they often moor their Ships to the very Rock; the Current is strong, and the Paffage narrow, to that fometimes Ships moor a-thware from the Rock to the Island. The S.S.E. and S. by E. Winds blow right in, but 'tis fo narrow there can go no very great Sea.

There is also another Island call'd Muggel, which lies off of Dalkey; and there is a finall narrow Channel likewife on that

fide, with 5 to 6 Fa. but the Ground is not good.

From Dalkey begins the Bay of Dublin; you fail into it N.W. by W. The Road at the Town of Dalkey is tolerable for a S.E. Wind, but bad if more eatherly; there is 8 to 9 Fa.

but not good Ground, especially to the westward.

All the way from the Tuskar Rock, off of St. Margaret's Bay, to this Point of Dalkey, the Sands call'd the Grounds lie parallel with the Shore; and they have Openings and Channels between, over-against all the Ports and Harbours, as is describ'd above. They are steep too on both sides, but especially on the E. or outside; for they have 10 Fa. Water close to them on the inside, and 20 Fa. on the outside, so that no Ship ought to come nearer than 24 to 25 Fa. on the Off-side; they have in some Places but 5 or 6 Foot Water upon them; at the N. end indeed they have $2\frac{1}{2}$ to 3 Fa. but stony and soul Ground; they lie in some places 3 Ls. from the Shore, in others not above $2\frac{1}{2}$, and trend along N. by E. and S. by W.

If you would go without them to the northward, you must lie so to the N. as to keep the Island call'd Ireland's Eye without the Hoath Point; and by that Mark you go clear into the

Bay of Dublin.

N. B. The Tide in St. George's Channel is double; the S. Tide flows northward, and the N. Tide flows S. And they meet against Carlingford Bay, where they make a Race, the two Floods checking one another: Then the Ebbs set back again in the same manner.

From this Bay of *Dalkey*, the Bar of *Dublin* lies due N. distance 2 \(\frac{2}{3}\) Ls. You have from 5 to 8 Fa. Water all the way; the nearer the Bar the shoaler. But as you have Pilots always ready here, we needgive you no Directions for failing into *Dublin* Harbour: The Pilots carry the Ships up to the Key, or to the Pools, where they may lie a-shoat according to what Water they draw.

First, to come to the Bar, keep the westermost Rock off of Dalkey a Handspike's length open from the Island, or of all the other Rocks: This Mark will bring you right off the Bar.

There are two great flat Sands, which lie one on either fide the Harbour: One is call'd the South Bull, and the other the North Bull; they are both dry at low Water. There runs a narrow Tail from the South Bull, which with a finall bending Circle eastward crosses over, and joins the E. end of the North Bull Sand: And this makes the Bar of Dublin, distance 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 South Bull.

If a Ship makes for the Bar from the S. she must steer directly with the low Lands of *Hoath* N. by which she will come fair with the Buoy: If from the northward, she must run close about the Point of *Hoath*, and along under the N. Shore, till she comes to the Bar, which is deepest also on that

fide. Or take it thus:

If from the 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 lies to the N.E. of *Dalkey Point*, to bear S. and then run in N.N.W. Or bring *Ireland's Eye* to the well-world of the *Hoath-hill*, that brings you directly to

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Shore, and plain to be feen. The Haven is nárrow and difficult; you must make Signals for a Pilot, who will come off to you. In the way, 1 \(\frac{1}{2}\)L. from Lambey, is the Rock call'd Abel; but 'tis also to be seen, and you may go fair on either side, as the Wind ferves you.

Dundalk is the next Port to Drogheda due N. distance 6 Ls. a good Bay, but no Haven fit for Ships; 'tis all dry at low Water, you may walk over it; but 'tis well supplied by Carling ford, distance 3 Ls. E. from Dundalk. This is an excellent Harbour, tho with a difficult Entrance; the Bar has but 9 or 10 Foot at low Water, tho 'tis near a League wide; but it flows 2 Fa. at ordinary Tides. There is an Island at the Entrance call'd Haul-Bowline Island: Be fure to go to the castward of it, and keep no nearer to the Island than 7 Fa. Water, and no nearer to the Main than 3 Fa. for both Shores are foul and stony; but the Channel is fair, being half a League over: And after you are over the Bar, there is 7 to 20 Fa. Water.

From the Island keep the Fair way Mid Channel up, going over to the W. Shore, leaving another Island call'd Guerne 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 Birth to the Point of the Island, for about half a Mile N.E. from it

is a Ledge of funk Rocks.

From this Point steer N.W. about 2 ? Miles, and you come into the Road of Carlingford, where you may ride in what depth you please from 7 Fa. to running a ground, which you may also do in fost Ouze, and sit safe without Anchor or Cable. 4 Miles above Carlingford is the Entrance into the River Nury, where you have 3 Fa. Water; and 2 finall Ls. within, is the Town of Nury, but no depth of Water, except for fmall Craft.

East from the Bar of Carling for d 1 \(\frac{1}{2}\) L. is a Ledge of Rocks having but 8 Foot at high Water; but the Passage between them and the Shore has 8 to 12 Fa. And 5 Ls. from those Rocks N. by E. is Dundrum, a little but very good Haven. And 2 Ls. farther E. is St. John's Point, under the N. fide of which is the Haven of Arglas, all which is fair and open, a bold Shore, and no danger.

From Arglas, 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 Strangford, at the Entrance in-

to the great Lake call'd Strangford Lough.

From the Mouth of Strangford Haven the Coast 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 Channel between them and the Main. After you are past them, there's another Ledge of Rocks by the E. Shore; leave them to the Starboard. As you go in above Port Ferry, there is a Road call'd Bally Haven, where there is a funk Rock just before the Road. Bring the Saddle of two Hills which are on the W. Shore opposite to you, and then you may go boldly in; but come no nearer than in 4 Fa. Water, for the Ground is every where foul and stony. The Rocks call the North and South Rocks lie 1 - L. from Strang ford Harbour. E.N.E. from the S. end of the South Rock lies a Ledge of Rocks, at least half a League into the Sea; and from the N.E. end another. That call'd

the Harbour: One is call'd the South Bull, and the other the North Bull; they are both dry at low Water. There runs a narrow Tail from the South Bull, which with a finall bending Circle eastward crosses over, and joins the E. end of the North Bull Sand: And this makes the Bar of Dublin, distance 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 South Bull.

If a Ship makes for the Bar from the S. she must steer directly with the low Lands of *Hoath* N. by which she will come fair with the Buoy: If from the northward, she must run close about the Point of *Hoath*, and along under the N. Shore, till she comes to the Bar, which is deepest also on that

fide. Or take it thus:

If from the 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 lies to the N.E. of Dalkey Point, to bear S. and then run in N.N.W. Or bring Ireland's Eye to the westward of the Hoath-hill, that brings you directly to the Bar: Or bring a Tower which is to the westward of Hoath-hill, on the Hummock which is on the E. end of Lambey; that is also a leading Mark to the Bar.

You may go over the Bar on either side the Buoy: When you are over the Bar, the Sugar-loaf over Mall-hill is your Mark to come to an Auchor in Pool Beg. In the Iron Pool you have 4 Fa. at high Water. Bring the Sugar-loaf over the low Hill before it, then you are in the best of the Road. The S.W. Winds blow here with strong Gusts from the Hills, and the Sands round the Pool are all dry at low Water.

A Mile above the *Iron Pool* is *Clantarf*, 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 strait, that the larger Ships lie below

at Pool Beg.

The *Iloath* is the N. Point of the Bay of *Dublin*, without the Bar; there is good anchoring, and clean Ground on every fide of it, only not too close to the Shore, and except about a Cable's length off of the S. Point, where is a small

Shoal, tho with 4 Fa. Water.

North from the Hoath lie two Islands, first, one call'd Ireland's Eye, and the other N. of that, call'd Lambey. The first is the smallest; there is a good Road on the W. side of it over-against the Chapet: But on the S. end of it lies a Rist of Rocks, and on the E. a high Rock call'd the Stags. Overagainst this Island is a Village call'd Mascheal, with a Haven for small Vessels. On the N side of Lambey is a good Road for a southerly Wind; but for a Sea Wind you must weigh and be gone, for there goes a very high Sea; in such case you may ride on the W. side near a large House, but 'tis a wild Road there also.

Drogheda is the next Port from Dublin; the Course is N.N.W. distance 7 Ls. from Lambey: 10 Ls. from Dublin, mid-way, lie the Skirres, which are certain Rocks close to the

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From the Mouth of Strangford Haven the Coastlies 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 past them, there's another Ledge of Rocks by the E. Shore; leave them to the Starboard. As you go in above Port Forry, there is a Road call'd Bally Haven, where there is a funk Rock just before the Road. Bring the Saddle of two Hills which are on the W. Shore opposite to you, and then you may go boldly in; but come no nearer than in 4 Fa. Water, for the Ground is every where The Rocks call'd the North and South Rocks foul and stony. lie 1 L. from Strang ford Harbour. E.N.E. from the S. end of the South Rock lies a Ledge of Rocks, at least half a League into the Sea; and from the N.E. and another. That call'd the North Rock is a great Range of Rocks stretching N.N.E. at least a L. many of which lie funk at high Water, so that 'tis hazardous to venture between them and the Main: But there is a fair Sound between the North and South Rocks themsclves, with good clean Ground, and 6 to 8 Fa. Water.

Two Leagues from the South Rock N.N.W. lies a Shoal: you must come no nearer to it than 8 Fa. And 5 Miles from it N.N.W. is a Rock call'd the Plow, well known and feen above Water at half Tide. Half way between the North Rock and Bally Water lies a small Island near the Shore. call'd Burcal. From the North Rock to Copeland is near 6 Ls. N. by W. and N.N.W. the South Rock half a League more;

and from the Plow is 8 Miles N.N.W.

Copeland is an Island lying E. by N. from Carrickfereus. open with the Bay, 2 Miles from the Land due E. On the W. fide of it lies a funk Rock ! of a Mile N.E. from the Flat Point; there is not above 3 Foot Water upon it: But the Passage between this Rock and the Point is good; the Sound between the Island and the Main is very good, and 7 to 8 Fa. Water; but the side next the Main is foul, therefore come not too near, and especially to the northward. There lies a funk Rock a quarter of a Mile off from the very next Point are also two little Islands N. of Copeland, viz. the Cross and the Mew; but there is a very good Sound 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 Belfast, where it is only 3 of a Mile broad, diltance from the Mouth of the Bay 5 Ls. 2 Ls. within the Entrance, and on the N. Shore, stands the City and Castle of Carrickfergus; the Road is good before it, and there is a Pier at the Town, but dry at low Water. S. by W. distance I Mile lies a Bank of Sand, which has on it t + Fa. at low Wa-

ter; it lies just 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

Fa.

S.W. from Carrickfergus lies Carmoyl Road, distance 5 Miles: There is a long Spit runs out from the N. Shore: Therefore to come into Carmoyl, you must run up into 4 Fa. at low Water almost to the White-house. Bring Castle Rock upon a little Village which stands on the Shore; and then run two thirds over, and you are fair before Carmoyl.

Carmoyl is the Road where Ships ride which are bound to Belfast. The Castle Rock stands on a Hill to the E. a little above Carmoyl; you have deep Water in Carmoyl, but extremely full of Weeds in the Channel. From thence to Belfast there are several Beacons or Poles to direct the Course; but if you are unacquainted, there are Pilots at Carricksfergus.

To the N. of Carrickfergus lies a Harbour call'd Old Fleet, distance 2 Ls. Two flat Towers, one higher than the other, like the Fore-sail and Main-sail of a Ship, and which are on the N. side the Bay, are Marks to know it by: Also at the S. Point of it lies an Island call'd the Knee, which is another Mark. But from the N. Point of Carrickfergus you must go away N. E. at least 4 or 5 Ls. to keep clear of the Rocks call'd the Maidens, which lie N.E. by E. off of Carrickfergus.

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 must keep Knee Island close with the Main, and then you are without it; but if Knee Island be open with the Main, then you are within the Rock: Also if going into Learn you keep Brown's Point opposite to the Castle of Carran, then you are right against this Rock. So when the Rock of Ballegill Mountain is right with the Middle of the Mount it self, then you are just upon this Rock, and may see the Rippling of the Sea upon it: You may run about the Knee into Learn with all safety.

'Tis very dangerous to come near the Maidens by 2 Ls. there are so many of them under Water, and they reach so sar into the Sea on all sides of those which are to be seen. There are some Passages between them which might be made use of in Extremity, but 'tis next to Desperation to venture it. To come from the N. you must go off to Sea S.E. by E. at least

3 Ls. to go about them.

From Old Fleet the Course lies N. to Fair Foreland 8 Ls. a bold Shore, and nothing to sear; and under Rathlin Point is good riding in 8 to 9 Fa. Water, and safe from easterly Winds: You may sail round the Island of Rathlin as Wind or Tide directs. There is a fine Bay on the S. side of it, with clean sandy Ground, and secur'd from all Winds that blow. As you come from the W. you see no Opening. Within the Island is another small Island almost close to the Main, call'd Sheep Island; you may go thro' between it and the Main; all is safe, 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 Island on this side; and your next Course, which is to the Skerres or Port Rush, is W. by S. distance 4 Ls. About 2 Miles to the E. lies a Shoal call'd the Chickens, but there is 40 Fa. betwixt it and the

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Road. This Skerres is an Island or great Rock; but on the S. fide is a fair fandy Bay, good clean Ground, and Water enough, and fecure from all Winds except E.N.E.

S.W. of this Island of Skerres is Band Haven, which goes up to Colerain: The Haven has not above 8 Foot Water, and a most furious Current upon the Ebb; so that 'tis at least three

quarters Flood before any Vessel can go up the River.

The next Port to this is the Entrance into Lough Foil, going up to Londonderry, the Course N.W. by W. from the Skerres, distance 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 Longh Foil 2 Miles N. and when the Wind is off Sea, the Water breaks upon it with a prodigious Noise. 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 Passage very narrow; but the best Passage is on the W. side, where there is a broad Channel, and 14 to 15 Fa. Water, and off of Magallian Point 8 to 10 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 just 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. Passage; then run in along by the Land S.W. till you come off

of Green Castle.

From Green Castle to Red Castle keep the W. Shore a-board. and all is fafe and clear; whatever is capable of doing hurt is to be seen. You may ride off of Green Castle, so as to see White Castle without Green Castle Point. Going on from thence for the Town, keep still the W. Shore, only shun an Oysier Bank, which begins on that side about Red Castle, and stretches on to the Three Trees; there the Ships usually come to an Anchor.

From this Road you go to Culmore Castle, which is at the Entrance of Lough Foil to the River of Londonderry; still keep 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, should be sure to take the last Quarter of the Ebb Tide only to run out, because the first Ebb sets right over the Tunns, and will force the Ship upon them, unless special care be taken: But the last Quarter of the Ebb sets NN.W. Keep that Course, till 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 Island of Rathlin.

From the W. Point of Longh Foil to Ensterhall is 4 Ls. W.N.W. This Ensterhall, or Ensterhall, is a Cluster of finall black Rocks, which appear but just above Water, lying off of Emistione, which is the most northern Land of Ireland. There is a Passage between those Rocks and the Main.

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You are now at the Extremity of the Island on this side: and your next Course, which is to the Skerres or Port Rush, is W. by S. distance 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 eastward. There are funk Rocks in the infide of it, to that unless you are acquainted come not there. 2 Ls. eastward lies Port Ballantay, but 'tis a dangerous

Sailing Directions for the Coast of Ireland, from North, to the Loups-Head at the Mon

EST South West from Ensterbull is the Entrance w into Lough Swilly, distance 4 Ls. 'Tis an excellent Haven, able to receive a Royal Navy, but little frequented, because here are no Ports of Trade: The Entrance is on the E. side, close by the Shore.

W.S.W. from hence is Sheeps Haven; 'tis a large wide Harbour, and you lie secure from all Winds: But in some places it is rocky and foul. However, it matters not much; for here also want of Business renders the Haven useless. W. Point of Sheeps Haven is call'd Cape Horn, nam'd so from a Hill which has two Heads like two Sheeps Horns. To the W. of the Point is a deep Bay, where is good riding within the Rocks, and another between Lough Swilly and Sheep Haven. Half a League off to Sea is a Ledge of Rocks. bare at low Water, but cover'd at high Water: Ships may in case of necessity sail within them, but 'tis much better to go round.

W.N.W. from Cape Horn lies Tory Island, or in Irish Acceptation the Island of Thieves. S. from it lie four Islands, call'd the Islands of Ballyness; you may pass between Tory Island and those sour, and there is a good Road within the Rocks in the Passage, where you are secure from southerly or eafterly Winds.

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Entrance of Longh Foil to the River of Londonderry; still keep the W. Shore on board, 'tis all safe to Culmore: After that the Charts will be sufficient, or you may have Pilots up to the City.

N.B. Whoever are outward bound from Lough Foil, should be sure to take the last Quarter of the Ebb Tide only to run out, because the first Ebb sets right over the Tunns, and will force the Ship upon them, unless special care be taken: But the last Quarter of the Ebb sets N.W. Keep that Course, till you open the Head of Coldoss, and then you are clear of the Tunns; then go N.E. by E. to get clear of the Island of Rathlin.

From the W. Point of Longh Foil to Ensterball is 4 Ls. W.N.W. This Ensterball, or Ensterball, is a Cluster of small black Rocks, which appear but just above Water, lying off of Emistone, which is the most northern Land of Ireland. There is a Passage between those Rocks and the Main; but its very dangerous, there being many bad Shoals and Rocks in the Channel: But you may ride under the W. side of Emistone on extraordinary Occasions.

Ireland, from Ensterhull upon the farthest Point and at the Mouth of the River Shannon.

This is a safe Coast all the way from Cape Horn to the Isles of Arran, with good Ground, and secure from Winds; the Isles of Arran lie S.W. distance 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 some Dore; 'tis dry at low Water, so 'tis of no great use; and there are several small Islands off it.

If you would go to Arran from the N. keep close by the greatest of those Islands, leaving it on the Starboard Side, till you come to the E. side: Then steer away S. and so come to an Anchor on the S.E. side. There are every where good Roads either under the Island or the Main, as also several fine Bays and Harbours without Names; want of Trade rendring them unfrequented, and therefore unknown.

You are now upon the N.W. part of the Coast of Ireland: The Point is call'd Cape Telling, 'tis distant from Arran 7 Ls. the Course S.S.W. Off of the Point is an Island call'd Kathlinben; the Sound between is very safe, and deep Water. There is a Haven under the Cape, call'd also Telling Haven, with a good Road secure from all Winds from W. to E.S.E.

Next to Cape Telling is Kilbegh, S.S.E. distance 4 Ls. a fine round Bay, a good Road, and clean Ground: At coming to it you see no Opening at first, nor is it very broad; but when you

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Directions for Sailing on the Coasts of

you are in, 'tis all safe, as well in the Entrance as in the Bay; and you may lie where you please in 5 to 8 Fa. Water. On the N. side in the Bay is the Castle for Security; you will know the Bay by a little low flat Island, plain at both Ends; it lies

W. of the Boy, distance half a League.

St. John's Point lies W. of Kilbegh, distance , Miles, running out into the Sea above a Mile; and farther W. lies a great funk Rock, you'll know it by the Sea breaking upon it with a terrible Noise; but you may fail safely within it: Between Kilbegh and St. John's lies a Bay call'd Mac Swain: 'Tis a good Bay when you are in, but dangerous at the Entrance, by reason of several Rocks in the Passage.

East from St. Yohn's, distance 2 Ls. lies Dunagall Harbour; 'tis difficult going in there too, the E. Shore is very foul. There is a little Castle on the N. side, and there lies a Riff over-against it, so that you must avoid that also. When you are about the Riff Point, stand over to the N. again, for the S. Shore is flat; but by entring on the N. side, after you are past the Riff, 'tis all good.

S.S.W. from Dunagall is the Haven of Balleshannon, distance 2 Ls. And W. from Ballesbannon, distance 3 Ls. is Enismurry; there are some Roads between, where Ships may ride in fafety, as Bundorf, Bundat, and others of less note. Enismurry is a little Island half a League long: At the S. end of it is a large Rock above Water; and from the Rock a Ledge of small Rocks, which run out a great way into the On the S.E. side, 'tis all good and safe.

S.W. by S. foutherly from Enismurry lies Ballenden Point, There are feveral Islands and funk Rocks all distance 8 Miles. the way from thence to Rala Point, so that this is a dange-

rous Coast.

S.E. by E. from Rala Point is the Haven of Sligo, distant 4 Mile: 'tis a good Haven when you are in, but full of Rocks and Shoals in the Passage. Due S. of Sligo is Clonick Bay, of little use, because little frequented: West from which Bay is Moyl Harbour, distant 6 Ls. at the bottom of a deep Bay. Two Ls. up, just before it lies a long Island, which makes the Harbour, being fo thwart it, that there is but one Entrance. At the W. end of this Island is a Riff, which makes the Channel There is a small green Island in the Harnarrow and difficult. bour, where finall Ships come to an anchor, and great Ships under the Long Island.

No Ships go up to Moyl that draw above 8 Foot Water; 'tis a forry Port, and dry at low Water. At the Town indeed

it is deep, but the Shoals are in the way thither.

West from the Port of Moyl, a little North, lie certain Rocks called the Stags of Broad Haven, distant 8 Ls. with feveral Bays and Coves between, but of little use. Rocks lie off the E. Point of Broad Haven, running N. by W. In the way between lie 4 other Rocks, which if you go into the W. Entrance of the Haven, must be lest to the South.

S.W. by W. from the Stags, distant 7 Miles from Broad Haven, lies an out Point stretching to Scaward; and 5 Ls. from thence S.S.W. lies a great Rock called the Black Rock; and 2 Ls. S.S.E. from that lies Achil-head, so that Achil is from

Islands is 7 L Passages into

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North Sound of theWestern being rocky way lies her Sound to Bla 7 Ls. and fro Island is at t L. TotheW Rocks; they row Channel have 5 Fa. W Road, where pond, good near 3 Fa. up low Water, S

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Islands is 7 Ls. the Courie S.E. by S. These Islands make four Passages into the Bay.

1. Within the Isle of Shere, or Little Arran, between it and the Main; 'tis a bold Passage, keeping to the Shore of the Main: for there lies a great Shoal on the other side, half Channel over. This Channel is called the South Passage; 'tis a safe Channel, and in the sair way you have 15 to 16 Fa. Water quite thro'.

2. The next is called the False Passage, and lies between the Little Arran and St. Gregory's Isle, which is called the Middle Island: 'tis narrow and dangerous, and seldom used; it is foul at the S.W. Entrance, but if you keep St. Gregory's Shore, you may run thro', for there is Water enough, at least 20 Fa.

3. The third is St. Gregory's Sound, between the Middle Island and the Westermost; this is the best of the three, being clear on both sides, and deep.

4. But the fourth is the broadest of all, and is called the North Sound: It is at least 2 Ls. broad; but you must keep off of the Westermost Island at least half a L. the Shore on that side being rocky and foul for a great way into the Sea. The fair way lies here E. and W. From the Entrance into the North Sound to Black head, being the first Point to the Starboard, is 7 Ls. and from thence to Mution Island 3 the. This Mutton Island is at the Entrance into the Road of Gallway, distant 1 L. To theW, of this Island is a Ledge of Rocks called the Black Rocks; they lie half a L. from the Shore: But there is a narrow Channel between the Island and the Main, in which you have 5 Fa. Water. When you are thro', you are in Gallway Road, where you have also 5 to 6 Fa. and you lie as in a Millpond, good Ground, and fafe 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 Water.

There are several good Roads and Harbours on the N. Shore of this Bay, as the Islands of Convit and Conkette off of Port Nassay. The Sound between is good, and a Mile broad; you have deep Water into Nassay, 7 to 14 Fa. 2 Miles E. from Convit lies the samous Batterby Bay, which is, the exceeding large, a meer Harbour Landlockt on every side; the Entrance narrow like a Haven, but within 4 Miles long and 2 Miles broad, every where safe, good Ground, deep Water, still current, 5 Fa Water close to the Shore on both sides, 16 to 12 Fa. in the middle. Great pity there is not more use for so since a Harbour.

From Naffdoy S.S.E. distant 4 Miles, lies an Island called Kronkara; 'tis clear and good riding; but betwixt that and another Isle called the Maes, there is no passing for Rocks. Farther in lies Conichin Bay: to go thither you must keep off of the N. Shore, and without all the Islands, in at least 6 Fa. all within the 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 also a fair Channel between the Roes Island and Millan, being a Mile over, and 12 Fa in the fair way; but you must keep Mid Channel, for 'tis foul and rocky on both sides.

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S.W. by W. from the Stags, distant 7 Miles from Broad Haven, lies an out Point stretching to Seaward; and 5 Ls. from thence S.S.W. lies a great Rock called the Black Rock; and 2 Ls. S.S.E. from that lies Achil-head, so that Achil is from Broad Haven 11 ½ Ls. It is a very high Point, and shews it self at a distance with a Saddle or Hollow in the middle; and within it are two Mountains extractdinary high; which altogether appear at Sea like 3 Islands. Achil is an Island, and you may sail between it and the Main; but the two Mountains are on the Main, between Broad Haven and Achil, and between the Black Rock and Broad Haven. From Achil there is a Sound or Passage into Broad Haven; so that you may ride any where: 'tis all but as one Harbour. There is a deep Bay between the Island of Broad Haven and Achil, which will also 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. These Bays and Harbours lie so one within another, that you need not go out the same way you come in, but may run thro' any way with safety: So that it is properly a Sound, not a Haven. But all these Harbours, however safe and convenient, are of very little use, for want of Commerce this way, especially for

great Ships, except driven in by Stress of Weather.

S.S.E. from Achil-head is an Island called Enishtirk, distant 5 Ls. which lies right against Alarys Bay, and N.N.W. from that the Island Ennisbottom: There is a good Harbour on cither of them.

Due S. from Achil-head is a Point called Achariston, distant 8 Ls. and S E. from thence is the well known Cape called Slyne-head, distant 8 Ls. more. Between the Slyne and Achil is a high Hill shap'd like a Sugar-loaf; 'tis called St. Patrick's-Hill, seen a great way off at Sea. All the Coast here is full of good Roads, Bays and Harbours, but unfrequented, and therefore unknown.

Before the Bay of Galloway lie three Islands, called the Isles of Arran, stretching almost 7 Ls. in length, from the W. side of the Bay N.W. by W. From the Styne-head to those

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

From Naffdog Kronkara; 'tis' on nother Isle calle Farther in lies Co of the N. Shore, all within the d Conichin you ha the Bay 7 to 9 F. Roes Island and fair way; but y rocky on both for

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

If you come f best Course is thr to the Southwar called Battiela S Loups-head is of the Entrance in But in your way from the Islands more out to Sea, clear.

They that go yet are bound to of Arran; ther Westerly, dist. 1 dist. 12 Ls.

The most We is the Head of the is S.W. by W. di Cape Shannon, into the River Sbeing the breadt W. Here you as far as Limeric

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Convit lies the famous Batterby Bay, which is, the 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, still current, 5 Fa. Water close to the Shore on both fides, 10 to 12 Fa. in the middle. Great pity there is not more use for so fine a Harbour.

From Naffdoy S.S.E. distant 4 Miles, lies an Island called

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Kronkara; 'tis clear and good riding; but betwixt that and another Isle called the Maes, there is no passing for Rocks. Farther in lies Conichin Bay: to go thither you must keep off of the N. Shore, and without all the Islands, in at least 6 Fa. all within the 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 also a fair Channel between the Roes Island and Millan, being a Mile over, and 12 Fa. in the fair way; but you must keep Mid Channel, for 'tis foul and rocky on both sides.

From hence you may still sail up the N. Shore, I mean in Gallway Bay; but keep at least half a L. off, for 'tis all sull of sunk Rocks and unseen 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 Gallway.

best Course is thro' the S. Passage. If you pass thro' the same way to the Southward from Gallway, your Course is from a Point called Battiela S.S.W. to the Loups-head, distant 11 L. The Loups-head is called also Cape Leane, and is the N. Point of the Entrance into the River Shannon, or Limerick Water: But in your way take heed to avoid the Shoals which shoot out from the Islands of Enniskerry; to do which you must keep

They that go out of Gallway Bay by the N. Passage, and yet are bound to the Southward, must go about the Great 1stee of Arran; then the Course to the Loups-head is due S. half Westerly, diff or I if thro? St. Gregory's Passage, it is S. S. W.

more out to Sea, at least a Point and half, which will carry you

Westerly, dist. 14 L. if thro' St. Gregory's Passage, 'tis S.S.W. dist. 13 Ls.

The most Westerly Land of the whole Kingdom of Ireland

is the Head of the Islands called the Blasgues; and the Course is S.W. by W. distant 12 Ls. Between them is Cape Kerry, or Cape Shannon, being the Southermost Point of the Entrance into the River Shannon, which is distant from Loups-head 2; being the breadth of the Mouth of Shannon, the Course S. by W. Here you always find Pilots to carry you up the Shannon as far as Limerick, for so far the River is navigable.

A little from this Point S. is Trally Bay, with the Isle of Fenor 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 Trally Bay is Likem Bay, or the Islands of Hogs: and 3 Ls. W. is Smirwick Haven, distant from the Shannon 7 Ls the Course N.N.E. the Coast clean and good Ground all the way. Smirwick Haven is a very secure Port, nor is there any Danger go-

ing

ing in or out. Off of this Haven lie the Three Siflers, which are three finall Islands lying at the Entrance of the Sound called the Blafques, called to from the Islands mention'd before; they are 4 in number, being small in compass, and are no more than high Rocks like Hills in the Sea. There are also some lesser Rocks every way round them; they lie W.S.W. from Smirwick Haven, distant near 4 Ls. The Sound or Passage between these 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 Wind, may come to anchor before the Sound on the S. fide, without danger of being embay'd, or driven on a Lee Shore: for if the Wind shifts Easterly, he may go thro' the Sound, or go off to Sea, and ride under the Blasques; if it shifts Westerly or Southerly, 'tis fair for the Sound, and they go on their Voyage. The Tide in the South runs very sharp as well upon the Ebb as the

Flood.

Southward of the Blafques, diffant 8 Ls. lie the Shellecks; there are 3 very great Rocks, the Eastermost but 1 L. from the Main, the Westermost something above 3 Ls. They show at a distance like Ships under Sail. Between these lies Dingle Bay, distant from the Shellocks 9 Ls. it is a known Road, and much used; for now you come into a part of the Country more fre-

quented, and full of Trade.

In the Entrance into Dingle there lies a small Rock off the W. Point called the Cow; but you may see it above Water, except at the top of a high Spring Tide, and then 'tis but just cover'd fmooth: 'tis deep Water every where round it. going into the Bay lies N.W. and S.E. About a great L. W. of this Bay lies another less than Dingle, but safe and good every where, called Ventry; and due S. from the Ventry, over the Mouth of the great Inlet to Castlemain Bay, lies another Bay called Begins: 'tis opposite to the E.cnd of the Island called Valentia; it goes in E.S.E. lies N.E. from the Shellocks, and S. by E. from the Sound of the Blasques. The E. Point of this Bay is foul a good way off, but the W. Point is clean and fafe: Alto there is a funk Rock on the fide of the Island, but you have room enough to avoid it. When you are come within the Bay, go away E. by N. You will know the Road by a high red Cliff opposite to it.

The next Head Land from the Shellucks is Cape Dorses; they lie from one another N.W. and S.E. distant 6 Ls. between them lies the River of Kilmore, which opens into the Sea at a very wide Entrance called Kilmore Sound, and goes in N.E. Four Islands cross the Sound, as the Arrans do at Gallway Bay, only they range the Entrance of the Sound S.W. by W. inclining to the N. Shore. Here are abundance of Creeks and Coves, which make all good Havens for Shipping, so that no Ship can want a Harbour to run into for shelter, let the Winds blow where they will. Entring Kilmore Sound, the Wenis, one of the small Islands, lies on the Larboard side. From thence to Cods-bead, the second Point on the Eastern Shore, there is no less than 40 to 45 Fa. Water. Beyond the Point distant

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Sailing on the Coasts of Ireland.

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into the Bay. There is Water enough in either of the Rivers; but it is so good anchoring every where else, that 'tis needless to run up so far. There are only some sew Rocks just against the Mouths of the two Rivers, which are cover'd at high Water: but you may fail on which side of them you please. Higher up the Bay stands another old Castle, and 'tis called Old Castle; sailing by which, you come out into Bantry to the Eastward.

The Island of Beer-haven has a large Sound on the N. side. 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, some of which are sunk at low Water; but the Shore of the Main is good. In the Passage 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 deep. Over against it lies the Island of Whiddy: from Beer-haven to the N.E. Point of it is 4 Ls. E.N.E. In the Fair Way is from 30 to 40 Fa. Water; but betwixt *Eeer-haven* and the Main, which is called the N. Sound, is no more than 5 to 10 Fa. farther towards the Whiddy there is 20 to 25 Fa. Whiddy is but a little Island, 1 L. round, or thereabout: you may fail any way round it, but the best way is to the N. or Eastward, where you must keep close to the Point, because of a little Ledge of Rocks which lie Musket-floot from the Shore; they are cover'd at high Water, but appear at half Ebb.

Beyond that Point lie 2 finall Islands: you may go on any fide of the biggest, till you come to a large white House by the Island Whiddy; against the House you may ride in 4 to 6 Fa. more or less, as you please to lie nearer the Shore, or farther off: But all the W. and S. sides of the Whiddy are foul and difficult. The usual Place to ride in is right against an old Abbey or Friery, opposite to the S. side of the Whiddy, where there is very good Ground 4 to 6 Fa. more or less, as you please. There is a little low Island to the northward of the Road, which at high Water the Tide divides into two.

W.N.W. from the E. Point of Whiddy, distant 1 L. lies the Longerf Haven. In the fair way to it from the E. Point of Whiddy, lies a great Rock high above Water; you may fail by it on the off side with safety; but the other is dangerous, and the Haven goes in N.N.W. There is foul Ground on the E. side, which lies dry at low Water; shun that, and all the rest is clear and good.

From Mizen-bead the next Head is Cape Clear, distant 5 Ls called so, say some, because when you are past it you are clear of this Throng of Heads and Bays, Islands and Rivers, which are so huddled together between the Shannon and the Cape, that they are perplexing; and if there were but one 10th part as many, the Navigation might be as good. In the middle between those two Capes lies Crook Haven, another very good Retreat for Ships in Distress: To go

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Cape Dorses is the Head-land of an Island lying a small distance from the Main; and Ships may ride within it, and pass thro' as occasion serves; only give the Main a small Birth, because the Land is foul on that side: But there is room enough on the other fide, and a fafe Road. There are feveral great Rocks, which appear without the Cape, but they lie far enough afunder: So that you may fail between them, and all

is fate and clear in the Passages any where.

S.E. from Cape Dorses, distant 6 Ls. lies Missen-head, or Mizen-head; and here goes in a great Opening, which, is called Bantry Bay, to large asthat a French and English Squadron had room to engage here in King William's War. There are abundance of Roads, Bays and Havens, needless to describe. On the S. of those Waters, about 1 L. N. from Mizen-head, is a Point called Three Caftles, because of three old Towers which fland upon it; and N.E. from the Point is another called Sheeps-head. These two Points make Dunman's Bay, a good Retreat for Ships in Distress, because easy to enter, and very fase when enter'd, otherwise not much used, no Town of Trade being thereabout.

About 1 L. from thence N.W. by W is Beer-haven; the Entrance is about Musket-shot over, and goes in between the Main and an Island lying off the E. Point: The Island is called Beer-haven Island, and is about 2 Ls. long. The Entry of the Haven is clear; keep Mid-Channel, and you have 6 to 8 Fa. in the Fair way. There is an old demolish'd Castle on the Larboard side, and beyond that two little Rivers empty themselves

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On the Ledge of 1 length off; Road, which at high Water the Tide divides into two.

W.N.W. from the E. Point of Whiddy, distant 1 L. lies the Longerf Haven. In the fair way to it from the E. Point of Whiddy, lies a great Rock high above Water; you may fail by it on the off fide with fatery; but the other is dangerous, and the Haven goes in N.N.W. There is foul Ground on the E. side, which lies dry at low Water; shun that, and all the rest is clear and good.

From Mizen-bead the next Head is Cape Clear, distant e Ls called fo, fay fome, because when you are past it you are clear of this Throng of Heads and Bays, Islands and Rivers. which are fo huddled together between the Shannon and the Cape, that they are perplexing; and if there were but one 10th part as many, the Navigation might be as good. In the middle between those two Capes lies Crook Ha. ven, another very good Retreat for Ships in Distress: To go in here from the eastward, you must run in by Cape Clear, going fo far about it to the Northward, till you can see thro' into the Sea as thro' a Hole; then steer W.N.W. keeping the Hole open to the N. of the Cape, then you will fall right with Crook The Entrance lies W.S.W. there is a little Irith Village: before which lies the Road, having 2 1 to 3 Fa. They have spoiled the Road, by heaving out the Ballast 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 Island Enisherkin, 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 steep, standing by it felf; 'tis called Fasteny or Fastone: and N. from the Rock dist. 4 Ls. is Shole-haven. To the Eastward of Enisherkin lies Baltimore Haven, well known to Sailors, and much frequented, being a very spacious Harbour, clean Ground, deep Water, and secur'd from all Winds: The Entrance is narrow, but safe. The usual Road when you are in is on the West side, just 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 stands the Castle. There is not the least danger in this Bay, except of a funk Rock in the Entrance, nearest to the East side, and another in the middle of the Harbour, which is feen at low Water. There is another funk Rock without the Haven, fix or feven Ships length from the Shore a little to the Eastward. but 'tis out of the Fair Way.

There is a way to fail thro' to the Northward of Enisherkin, and betwixt it and the Island called Spaw, to come out again by Cape Clear: But 'tis very difficult, and not to be done by great Ships, for there is not above 2 Fath. Water at half Flood. So again, there are several other Passages between the Island; but you had need be very well acquainted, if you venture.

On the E. fide of the Entrance into Baltimore Haven 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 fi-

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ding by the Fort in 5 Fa. On the W. fide the Harbour 'tis ftony, a black Point, as the Sailors call it; and on the E. fide a Watch-houle. The W. Shore is the fafest.

E. from Ballimore, distance 1 L. lie 5 or 6 high sharp Rocks, called the Stages; they lie about a Mile off the Shore, as you come from the E. they look like Steeples; you may fail thro' between them and the Main, there is room and Water enough.

About 2 Ls. N.E. from those Rocks lies Castle Haven, you will know it by a little Island which lies without to the Westward of the Entrance, which is called The Horse, and another little Island to the E. so close to the Land, that at low Water 'tis no Island. To go into Castle Haven, you run in between these two Islands, keeping close to the Eastermost, and run in with an old Chapel, which you will fee before you. When you are thwart the Chapel, you will fee the Castle which gives name to the Haven; on the W. fide, and over against it you may ride in 10 to 12 Fa. Water.

N. B. The Haven of Ross is on the same Shore, 2 Ls. N.E. from Caftle Haven.

From Castle Haven to the old Headost of Kinsale, is 9 Ls. the Course is E.N.E. and W.S W. And from Cape Clear to the Old Flead the Course is N.E by E. and E.N.E. distance 13 Leagues.

Midway from Castle Haven to the Old Head is the Haven of Clandore: To go in, run close aboard a high Point, called Kedenetedo in the Irish Dialect; but take care of a Ledge of Rocks which lie off from the West side of the high Point, and come about almost to the East side. When you are in, you will see a Castle there also: Ride off of the Castle in 5 to 7

Fathom; it is good Ground, and Water enough.

The Old Head, called by the Spaniards Cape de Vejo, runs far out into the Sea; the Point is very high and steep, at a distance it shews like an Island, upon the top of it stands a Light-house; you may ride very safe under the Lee of it on either fide, as the Wind directs; there is what depth of Water you pleafe. The Head running out fo far makes a Bay on the E. fide; beyond which, and N. from the Head, goes in the Entrance of the Harbour of Kinfale, being the Mouth of the River Bandon: The Entrance is due N. and there is 16 to 17 Fa. 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 Preh iin, the W. Point Sandy Cove Point: The last is foul and rocky; and off of the Prehain Point lie several small Rocks called the Bullman, which have also foul Ground on both fides: But betwixt the Bullman and the Prehain Point the Paffage is very good, the Shore on the Point perfectly clean, and in the fair way 4 Fa.

To run in between these Points steer N.N.E. half a Mile, and then N. a quarter of a Mile more; and you come to the Bar, where by this Course you will have 3 to 4 Fa. Water. This Bar crosses the Harbour a little above the Point on the W. Shore, called Money Point; and there you take a Pilot to

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the Mountain to bear N.N.W. from you, and it will earry you right in: When you have it N. 'twill lead you to *Toughall*, and N.N.E. to *Cork* allo: if you have it N.W. it will lead you to *Waterford*.

N. B. On all this S. Coast of Ireland, 9 to 10 Ls. from the Shore, lies a Bank of Sand, on which is 40 Fa. Water, where the Fishermen lie to catch Cod; and it is a certain Mark by which to find the distance of the Land in clear Weather: You see Dangarvan Hill upon it.

Water ford is the last Port upon this Coast; 'tis due West from Carnarost, which is the S.W. Point of Ireland, and where this Survey of the Shores of Ireland begins. The Coast between lies E.N.E. and W.S.W. being full of Mountains several times doubling, and several Story high one above another; but by the Shore 'tis all low Land, with several slat Towers upon it, for Sea-marks and for Sailors Directions.

There stands one of those slat Towers on the E. Point of Waterford Haven, higher than any of the rest, and to be known because 'tis white. The W. Point of the Haven is called Credau-bead; 'tis a foul Point, and there lies a Shoal off into the Sea S.S.E. from it but the sair way is broad enough and clear, having 10 to 11 Fa. Water, 7 Fa. in the Haven's Mouth, and 4 to 6 Fa. a good way in; the Entrance is N and N. by W.

There is a steep Point within the Rivers Mouth on the West Shore, and there begins a long Shoul reaching Northward as far as a Village called Passage; and the Tail of the Sand afterwards should over towards the E. Shore. Between Passage and the steep Point there is a good Road for Ships of Burden. To go to the Village, you must go on with the Castle, keeping it on board the E. Shore; after which you will have 8 to 10 Fa. but if you venture off the Shore, you may run on another Shoal which lies from the Block-house at Passage. The Shoal is dry at low Water, and upon the dry Part is a Beacon at a distance; so you must give it a good Birth, for which there is room enough in the Channel. The W Shore is shoaly and foul; but on the other side there is a good Road, over against a large House, and what depth you please from 4 to 12 Fa.

N. B. Off of Waterford it flows a W. by S. Moon, the first half Ebb running E. and the last half Ebb Westward, tho the last runs very fostly.

In going up to Waterford there is a little Shoal, that lies off against the Castle which is on the E. side; it stretches in part thwart the Channel, sloaping downwards: It has but 12 Foot Water at high Water; you must keep your Lead going to find it.

Above Paffage about half a League the Stream is divided, that is to lay, two Rivers meet there; which the finall when they are separate, make a very handsom Channel when joined, running together, and carrying large Vessels. These Rivers run thro' the City of Waterford.

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on the Pilot to cither side, as the Wind directs; there is what depth or water you please. The Head running out so far makes a Bay on the E. side; beyond which, and N. from the Head, goes in the Entrance of the Harbour of Kinfale, being the Mouth of the River Bandon: The Entrance is due N. and there is 16 to 17 Fa. Water in the sair way, and sarther out 25 Fa. The Mouth of the Harbour is not above half a Mile wide E. and W. The E. Point is called Prebain, the W. Point Sandy Cove Point: The sast is foul and rocky; and off of the Prebain Point lie several small Rocks called the Bullman, which have also soul Ground on both sides: But betwixt the Bullman and the Prebain Point the Passage is very good, the Shore on the Point persectly clean, and in the sair way 4 Fa.

To run in between these Points steer N.N.E. half a Mile, and then N. a quarter of a Mile more; and you come to the Bar, where by this Course you will have 3 to 4 to 4 Fa. Water. This Bar crosses the Harbour a little above the Point on the W. Shore, called *Money Point*; and there you take a Pilot to

carry you in.

N.E. by E. from the E. Point of Kinfale Harbour, is the Entrance into the Harbour of Cork; the Shore between is good, no danger that needs any other Warning than the Eye. Two high Hummocks them themselves upon the Land Westward; these are very remarkable, and by them you may elways know the Coast: when you are a thwart the Eastermost of the two, you discover the Mouth of Cork Harbour.

The Entrance is fair and very fafe, and full 2 Miles broad, with 10 Fa. Water in the Passage: afterwards it shoals to 5 Fa and so gradually to 3 ? Fa. but those that are unacquainted take Pilots at Staggs Head to carry them up to the City.

From the Staggs, which is the Eastermost Point of Cork Harbour, farther East, is a Rock called Hawk's Rock, distant 4 Miles: Nearer by a Mile is a Tower, upon a high head of Land close to the Water side, with some thatch'd Houses near it, and another slat Tower a L. farther E. upon the smooth Point, on which is a long Rock cover'd with Ouze; and from thence 'tis all low Grounds to the Point of the Haven going into Toughall. There is an Island upon this Coast called Bell-cotton, E. from Cork Harbour distance 4 Ls. within you may ride in 4 to 6 Fa. secure from Westerly and Southerly Winds. Cork and Toughall lie N.E. by E. and S.W. by W. distance 6 Leagues. At that Island you have Pilots to carry you up to Toughall.

Dungarvan is 5 Ls. distance from Youghall, the Course is N.E. 'tis a small Tide Haven, and the Mouth of it dry at low Water: There is a long Point stretches out to Seaward, before you come to Dungarvan: there is a high black Tower called Ardimore-head stands near it; which is seen at a great distance. There is a good Road under the Point, secure against a Westerly Wind; Dungarvan is no place of importance. There is an exceeding high Hill, which appears behind the Town, and is called the Mountain of Dungarvan, 'tis a noted Sea-mark for all this Coast. If you would go into Dungarvan, bring

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N. B. Off of Waterford it flows a W. by S. Moon, the first half Ebb running E. and the last half Ebb Westward, the the last runs very fostly.

In going up to Waterford there is a little Shoal, that lies off against the Castle which is on the E. side; it stretches in part thwart the Channel, sloaping downwards: It has but 12 Foot Water at high Water; you must keep your Lead going to find it.

Above Passage about half a League the Stream is divided, that is to say, two Rivers meet there; which the small when they are separate, make a very handsom Channel when joined, running together, and carrying large Vessels. These Rivers run thro' the City of Waterford.

About half way between Waterford Haven and the Point Carnaroot, lie the Saltees: These are two small Islands, the southmost is the largest; they lie half a League from the Shore, and from the Slade Point directly E. distance 3 Ls. You may fail between them, but keep nearest to the smaller of the two, which is the most notherly, because there are some sunk Rocks at the N. end of the biggest, which at low Water are dry. From the smallest of the Saltees lies a Ledge of Rocks stretching quite to the Main; 'tis said that formerly People walk'd over to the Island upon them, whereas now good Ships sail over them: The Reason of this Dissernce is hard to know. From these Islands to Waterford Haven, the Water shoals gradually from 36 Fa. to 21, in about 2 Miles.

To go between the Saltees and the Main, keep nearest the Main by ;, you have but two Fa. at low Water. There is a noted Rock call'd Kenebeg, which lies high above Water without the southmost of the Saltees, distance ; L. and S.W. from that, at the like distance, and S. by W. from the W. end of the Saltees, lies another call'd Killmore, which is under Water at high Water, and therefore dangerous, but at half Ebb'tis seen: 'Tis steep too, and 14 Fa. close by its side, so that you may go as near it as you please, provided you run not on it when under Water. You may go between Kenebeg and the Island, if Necessity require it; but better let it alone, because 'tis difficult.

S.E. from the largestrof the Saltees, and E. from the Rock Kenebeg, are several sink Rocks call'd the Freils, but at low Water they are dry, and you may sail between them: There are also other Rocks N.E. from the Saltees, call'd the Tunns; and the northermost of the Tunns is call'd the North Rock. There is also another Rock call'd the Trunckin N.N.E. from the bigger Saltee, and S.W. by W. from Carnarott: This Rock is above Water, and all clear without; but about half a League S.E. from it, lies another, very dangerous, under Water, call'd the Black Rock.

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There is a Road under the biggest Saltee on the N.W. side, and under the least, on the E. side, there is 7 to 9 Fa. in either of them: There is a Black Rock, which looks like a Boat turn'd Keel up, the Road is over-against it; you must not come nearer to the Shore than 5 Fa.

All the way from Waterford to Carnaroot the Shore is full of Bays, all fost ouzy Ground, and fate riding; except one little foul place close by the Shore, to the westward of Carna-

root Point.

The Saltees are fo furrounded with funk Rocks, and foul Ground, that he who comes out of Waterford bound to the fouthward, must take great care to go clear of them: To do this, he must not go more easterly than E.S.E. till he brings rhe Saltees to the N. of him, then he may go away due N.E. for the Tuskar, or N.E. by E. to go clear of the Tuskar.

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Sailing Directions for the Coasts of Flan from the Port of Dunkirk to the Texel, the Em

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Entrance into the Sound.



HE Coast of Flanders lies N.E. by E. and S.W. by W. It was all formerly call'd Flanders, or the Flemish Coast, from Calais to Sluys, distance 21 Ls. but fince the conquer'd Countrys are conceded to France by feveral Treaties, Dunkirk is

esteem'd a Part of France; and as it is so describ'd in our Geographical Part, we follow the fame Rule, and begin the

Flemish Coast from the Port of Dunkirk exclusive. As the Sea upon this Coast is full of dangerous Flats and Shoals, and the Channels between those Shoals and within them are very difficult, so 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 Sea-marks and Direction in their passing those Channels, and thunning those dangerous Shoals: So that the Coast, being also perfectly survey'd, is now very practicable and fate.

From Dunkirk to Newport the Course is N.E. distance 4. Ls. There are two small Places between them, but without any Haven: (1.) South Cotton, and (2.) a Cloister call'd Ten Duyn.

Newport is known at Sea by a high square Steeple with a small Spire on it, with another square Tower a little to the E. of it, call'd Our Lady of Lombardy; also a League farther toward Oftend, another call'd Medlekirk.

From Newport to Oftend the Course is still N.E. casterly,

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ks, and foul bund to the cm: To do ll he brings away due the Tuskar.

The Tuskar is a Rock in the Sea, describ'd before, lying 1 L. from Grenore S.E. by E. and 4 ½ Ls. from the Saltees N.N.E. 2 ½ Ls. from the Block Rock E.N.E. and 40 Ls. from the Land's-end of England N. by W.

About 10 Leagues S.E. from it there are two Islands in the open Sea close together; they are both cover'd at high Water, especially on Spring-Tides, one to the N. call'd Scakum, the other to the S. call'd Kamey; others call them the Smalls: And there are two Shoals by them; one N.N. from them, and the other S.S.E. they are distance from Grasholme 4 Ls. and mid-way between them lies a Ledge of Rocks, dry at low Water; 'tis very dangerous to venture thro' between them, especially in a Calm, because the Tide runs strong thro'.

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asts of Flanders, Holland and Germany, Texel, the Embs, the Weser, the Elbe, and on to the

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A League from Blankenburg E. is Heist, a high Spire; and between them Liestog within the Land, being a square Steeple: To the eastward of the Heist is Knock, a Spire Steeple: To the E. of Knock up the Land is West Chapet, a low Tower with a short Spire upon it: To the E. of that, is St. Anne, a square Steeple; and to the E. of St. Anne is Sluys. N.B. All those Marks are necessary to be taken notice of, as they are made use of for the Knowledge of the Coast, and of the Flemish Banks, which are perhaps the most remarkable of the kind; nor is there any Coast like it in the known World, as you will see by the following Description, which I shall give as briesly as possible, but they must not be omitted.

An Account of the Sands call'd the Flemish Banks, as they lie extended between Dunkirk and the Channel of Ostend.

On the Coast of Walcheren, N.W. from Ostend, and W. from West Chapel, about 9 Ls. off from the Flemish Coast, lies a little Bank or Flat, which yet has 3 Fa. 2 upon it at low Water: In soul Weather there is a great Breach of the Sea upon it. About 5 Ls. off from Ostend lies another Sand call'd the Trick, where there is about 15 to 16 Foot Water. Bring St. Katherine's Steeple right against Ostend, then you come on against this Sand. Between that and Ostend is another Shoal, on which you have 3 Fa. but these they do not properly esteem to lie among the Flemish Banks.

Shoals, and the Channels between those shoals and within them are very difficult, so the Land is full of Sand-hills and Hummocks, with abundance of Towers and Spires, and other remarkable Buildings on the Shore, which serve the Mariners for Sea-marks and Direction in their passing those Channels, and shunning those dangerous Shoals: So that the Coast, being also perfectly survey'd, is now very practicable and sate.

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From Newport to Oftend the Course is still N.E. casterly, distance 2 \(\frac{1}{2}\) Ls. Half a L. to the West, S. of Oftend, is an old Work, left after the samous Siege of the Town by Albert Arch-

duke of Austria, and call'd Albert's Sconce.

Newport, or Nieuport, is a finall Tide-Haven, dry at low Water, and not capable to receive any Vessels that draw above 12 Foot Water: N. B. They are just now going to deepen the Entrance by removing the Bar, and making a Bason within for great Ships: If they bring it to Perfection, a new Survey of it must be taken.

Right thwart the Haven lies a Bank E. and W. which is dry at half Tide, and has but 8 Foot at high Water: The Channel within is good; the Entrance lies on the W. end of the Bank. Pilots come off at the usual Signal to carry Ships in, so it needs no Description. The Bank is steep on the N. side, so that you must not come within 3 Fa. of it.

Between Dunkirk and Newport there is a fair Channel, and all good Ground close by the Shore, within all the Banks, 15 Foot at low Water; and the nearer the Shore the deeper the Water, except just off of Ten Duyn, there you must keep

a little farther from the Shore, but not much.

At Oftend likewise you take a Pilot to carry you in, the Channels being very uncertain, and the Sands often shifting: But the Road is good and very safe to lie in, till the Pilots come on board. At low Water here is but 6 Foot Water upon the Bar, 3 & Fa. at high Water, rather more: But the greatest Ships ride a-sloat at low Water within the Harbour. N. B. Here also they are hard at work deepning the Entrance.

From Oftend to Sluys the Course is N.E. by E. distance 5 ½ Ls. not including the Entrance into the Water of Sluys, which goes in S.E. or S.E. by S. The Channel lies within all the Banks.

Two Leagues to the eastward of Ostend is Wenduyin, with a high Spire: Then Blankenburgh, a square Tower W. from the Spire: And within the Land, just over Blankenburgh, you see the great Church of Bruges, with two Spires upon it: Also a little to the westward stands John David's Steeple.

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But betwixt Oftend and Newport they begin, and the first contains four Banks, all lying thwart or just off of Offend: the two nearest to the Land end thwart of Newport, the two outmost run along westward almost to Dunkirk: That nearest 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 call'd Laland, or Boomland. Betwixt these two lies a Channel thro' also of 8 and 9 Fa. Water: Next to them are two Banks joining together; the eastermost ends about mid-way betwixt Oftend and Newport, and is call'd the Stroom; the westermost reaches thwart of Dunkirk, and is call'd the Stone Bank, which has on the E. fide a Hook, which goes off to nothing almost against Newport. On this Bank is 3 to 4 Fa. and on the E. end of it 5 to 6 Fa. Also the fourth is in two Banks, the eastermost is call'd Sandele, and the westermost Call Bank. or Small Bank, lying along by the Broad Bank side.

If you are bound to Dunkirk, and cannot go along the Flemish Coast, you must run without all these Banks, till you come
against Broad Bank, and then keep in along by it in 5 to 6 Fa.
the Channel is 15 Fa. deep. When the two slat Steeples to
the southward of Newport stand a Handspike's length atunder,
then you are right thwart the said sour Banks, upon which at
low Water there is not above 1 Fa. and at the Spring-Tide Ebbs
they lie almost dry. But betwixt all these Banks you may ride
in 9 to 12 Fa. and may run over them in 4 Fa. To the westward 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 Cloister of Ten Duyn, running W.N.W. about a League into the Sea: When the faid Cloister bears S. from you, then you are at the innermost part of the Bank, and you may run thro' between this Bank and the Land, in 4 Fa. at low Water. But usually when they fail thro' between any of the Banks on the Coast of Flanders, they run to the westward of this.

To the westward of the Broers Bank lies Cams Bank; there is 3 Fa. Water upon it, and you may run thro' within it in 8 to 10 Fa. and may ride there in all Winds by the Land:

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Directions for Sailing on the Coasts of Flande

There is also 5 Fa. betwixt this and the Broers Bank. In passing thro' between this Cams Bank and the Main, you come along by the Quade Bank, till you come right before the Harbour of Dunkirk; and when you come to the westward of Dunkirk, about S.W. of the Splinter, you run over a Shoal of 2 Fa. call'd Willbaert Sand; but as soon as you are over, you have 10 to 12 Fa. You are thwart of this Bank, when you bring Borbuch Steeple into the Valley of the Sand-bill. By these Marks you may sail thro' the Banks N.N.W. into the Sea, and come against the Tail of the Broad Bank in 4 Fa. then you must edge again a little towards the Land in 12 to 15 Fa. and then sail thro' between the Broad and the Small Bank E.N.E. and E. by N. till you are past the Cloister Ten Duyn and the Broer Bank.

To the eastward past this Bank, you come into shoal Water again, right-against Newport; but being past Newport, you may keep close to the Land in 8 or 9 Fa. and so you will run thro' betwixt the Land and the Geer towards Offend: When you come against Offend, you are clear of all the Banks, and may run away into the Sea, to pass into the Weilings.

But there are still five long Banks bearing North-Eastward on the Flemish Coast: When Graveling bears S.E. from you, then you 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 Channel betwixt each of them, with from 8 to 20 Fa. Water.

The outermost of these Banks lies 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 Channel, with 20 to 24 Fa. Water.

The fecond is call'd the Ruyting, lying from Calais Cliff N. F. by N. about 5 Ls. and has about 5 to 6 Fa. but upon the S. end of it 'tis shoal to 12 Fa. When the S. end of Berg St. Winnex comes betwirt two flat Steeples to the westward of 'Dunkirk, then you are thwart this Shoal.

There are three Windmills to the eastward of Dunkirk. When the outmost Mill comes over the E. end of the Town, it is the best Mark for this Shoal, and then the Steeple of Dunkirk will bear S.E. Five Leagues distance betwirt this and the third Bank lies a Channel at 12 to 13 Fa. Water.

The third Bank is call'd the Dike, it lies N.E. from Calais Cliff; and has a to 5 Fa. Water. Upon both Ends of this Bank are Shoals; the fouthermost has but 1 Fa. and lies also upon the Marks of Winnoxberg N.W. westerly from Dunkirk, and is call'd Dike-Polder.

The northermost Shoal has about 4 Fa. 2 Foot Water, and lies N.W. from the Cloister Ten Duyn. These Banks are very dangerous, for that call'd the Ruyring lies almost in the Fair way, and at low Water has not above 2 Fa.

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Sailing Directions for the Coast of Flanders and Zealar with the Sands upon the said

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The fourth is call'd Rattle Bank, and lies from Calais Cliff 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 those Shoals lie dry. Without this there goes also a Channel 19 to 20 Fa. deep.

To the eastward of the Rattle Bank, betwixt it and the Broad or Bree Bank, is also a Channel 18 to 19 Fa. deep.

In all these Channels betwixt the Sand Banks, you may turn safely to windward from one Bank to another every where,

and anchor also between the Banks where you will.

The S. end of the Broad Bank lies N.E. by E. from Calais

The S. end of the Broad Bank lies N.E. by E. from Calais Cliff, distance about 4 or 5 Leagues. And at the said S. end is a Shoal with 1 ½ Fa. but the rest of the Bank holds 3 to 4 Fa. Water. The N. end has 6 to 8 Fa. and stretches to the northward, till Newport bears E. by S. or till the Cloister Ten Duyn bears E.S.E. 5 or 6 Ls. off.

The Setting of the Tides.

All along the Flemish Coast near the Land, a North and South Moon make a full Sea.

In the Fair way, and without the Flemish Banks, a South-West Moon.

Betwixt Calais and Dover a S. W. Moon.

Along the Flemish Banks, the first of the Flood sets over the Banks towards the Main during one third of the Tide; afterwards along Shore: and the after Flood sets to the northward along the Sea.

When the Flood begins to go thwart off to Sea, then 'ris half Flood by the Shore; and then, or a very little after, you may go into any of the Harbours on the Flemish Coast.

Between Calais and Dover the Flood fets in N.E. by E. the

Ebb S.W. by S.

The Depth of the several Channels.

In the Fair way betwixt the Marsdeep and the Head-land of Calais and Dover, is 23 to 24 Fa. deep, a little without the Flemish Banks, 18, 19, and 20 Fa. but nearer the Goodwin 26 to 30 Fa. the nearer the Goodwin the deeper: And when you are thwart the Goodwin in 28 to 29 Fa. you are not two Gun-shot from it.

When you fail from the Marsdeep towards Calais, steer S.W. and S.W. by S. observing the Tides: And when you have by your Reckoning run 4 to 6 Ls. then edge over towards the Flemish Banks, till you come into 20, 19, to 18 Fa. When you are in the Depth, then steer S.W. and afterwards S.W. by W. and you will be Mid-Chankel between Calais and Dover.

If you can from the Poop see the Flemish Coast, and are in 16 Fa. Water, you are then within the Point of the Flemish Banks.

Calais Cliff and the South Foreland may be feen in 24 Fa.

ers and Zealand, from Ostend to Ter Veer; upon the said Coast.

it is the best Mark for this Shoal, and then the Steeple of Dunkirk will bear S.E. Five Leagues distance betwirt this and the third Bank lies a Channel at 12 to 13 Fa. Water.

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If you can 16 Fa. Water, Banks.

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Sailing Directions for the Coast of Flanders and Zeal with the Sands upon the said

the Island of Walcheren, which is the westermost of the Islands of Zealand, and the Flemish Coast; in which Channels you may fail safely with Ships of the greatest Burden. These are as follows, viz. the Weiling, the Splees, the Doorlog, and the Botkil; and they are all together call'd the Weilings, from the Channel of the Weilings, which is the largest of them.

Betwixt these Channels there are several Sands, or Shoals and Banks, which it is needful for Sailors to be well acquainted with, such as the *Inner Bank*, the *French Pole*, the *French Pole*, the

English Pole, the Raen, and the Rases.

The Inner Bank is a steep hard Sand, lying betwixt the E. side of the English Pole and Cadfant. Being off along Cadfant, bring the Castle of Sluys on with St. Lambert (a high Square or Tower Steeple upon Cadfant, to the northward of Sluys) then you are past the said Inner Bank to the eastward; and bring West Chapel on with the Knock, and you are past the W. end of it westward.

The English Pole lies off of the W. end of the Inner Bank, betwixt Raen and the Flemish Coast. This Sand is steep too: It has a Ribb running out from the W. end of it, which is about a Gun-shot over; and reaching quice away W. beyond Offend, 'tis a hard Sand, and good Anchor-ground, and is call'd the Ript. Bring Blankenberg to bear S.E. and by E. from you, you are at the deepest of it, and have 6 Fa. at low Water: Farther to the eastward it is shoaler almost to 3 Fa. On the other hand, if you go talker westward, it holds near the same depth of 6 Fa. and so on to the outer Bank thwart Offend, where about Gun-shot to the northward of the Ript, it deepens again, but 'tis soft Ground: Also about Gun-shot over the Ript to the S. and S.S.E. you have half a Fathorn more Water and soft Ground. When Heist, which is a high Spire Steeple, comes to the Light-house, thwart of that is the

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Calais Cliff and the South Foreland may be feen in 24 Fa.

ders and Zealand, from Ostend to Ter Veer; ds upon the said Coast.

shoalest of this Bank: Farther to the eastward it deepens again. Being past 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, because of the nearness of the French Pole. In part of the Channel betwixt this Bank and the Raen is foft Ground; and then it begins to shoal on both sides again, with hard Ground.

The Raen lies to the northward of the English Pole; it is flat on both fides, and fo broad that 'tis half an Hour's fail over: The W. end is flattest, and has the best Shoalings with hard Ground on both fides. Thwart thro' it ebbs dry, and that part is call'd the Drye Raen. Bring Bruges on with the Gallows-heads, then you are off the W. end of the Raen, where you will have 3 Fa. and good Shoalings.

N.B. The Gallows-heads 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 Channel are thus: Thwart the Raen the Channel lies thre', tho with but 2 1 Fa. at low Water. Bring West Chapel (on the Flemish Coast) a little to the eastward of the Knock, then you are right with this Channel: And bring the Castle of Sluys among the East Sand-hills of Cadsfant, then you will be off the E. end of the Raen, that is to lay, the Dry Raen.

The Rases, which are the last of these Shoals, lie along the Island of Walcheren on the W. side, and are divided into the Eastern and Northern Rases: Neither of them have av. it bove 2 ½ Foot Water at low Water, and are flat to the castward; being the inner fide towards the Land, as also to the fouthward. Bring West Chapel on the Island Walcheren, which thom has a square Tower-Steeple, on with the Mills; then you is the are thwart of the Channel betwixt the faid two Rafes,

and which runs that way into the Sca: There you have about 2 Fa, at low Water

The Weilings, mention'd before, lie between the Flemish Coast and the English Pole; they are divided into two Channels, the Main Weilings and the Inner Weilings. The Weilings, or Main Weilings, lies between the English and the French Pole; and the Inner Weilings lies between the French Pole and the Flemish Coast.

When you are at Sea, and would go into the Weilings, you must stand for the Flomish Coast, till you come into 5 ha. Water, especially if you are to the westward of Ostend: There did fermerly lie a Bank off from the Shore, which you might fail within; but now there is nothing left of it but a little Flat. Bring the Steeple of Bruges a Cable's length to the westward of Lefwig, (a iquare Tower, and the largest thereabouts) then you are to the westward of all the Sanda Banks, and Poles upon the whole Coast, mention'd above. those Steeples so, and run on towards the Flenish C all, till you come over the Rept of the English Pole, and into foft Ground, and till you come into 5 Fa. Water: Then go away N.E. and N.E. by E. with the Flood, or N.E. and N.E. by N. with the Ebb. Reckon your Tides carefully, they run mostly E.S.E. fomething foutherly, and W.N.W. fomething northerly; but the Tide scarce runs an Hour along Shore. Bring the Steeple of Wenduyn one or two Ship's length without Blankenb rg Sconce, and keep them there as long as you can fee them, still in 5 Fa. Water. Then bring Heift upon Bruges, and West Chapel upon Knock, and you are in the Fair way to the Weilings: The nearer the English Pole, the deeper Water, except you are within the Shoalings of the faid Bank it felf. Note, If Bruges do not come to Heist before West Chapel comes to Knock, then you are too far to Seaward, or too near the English Pole; but you may bring them all together at once with the first of the Flood, and then if you get Shoalings, it is of the English Pole. Then fail along by the same Course, between the English and the French Pole: The English Tole is flat thereabouts, which you will find by founding. When you bring the Castle of Sluys to St. Lambert, then you are past the French Pole.

N.B. St. Lambert is a high square Steeple upon Cadfant, to the northward of Sluys.

Thence you may fail East right with Flushing; or else obferve the following Directions. Lefwig must not come within Fless, but be kept without it, till you bring the Castle of More to the East Sand-hill of Cadfant; else you will run right against the inner Bank: But when the Castle of Sluys comes to the Sand-hill, then boldly go away E.N.E. and N.E. by E. to avoid the French Pole, till the Steeple of Flushing comes to the Northward of the Fresh-gate, when you will be in depth enough; then go away E. by S. right with Flushing. fant. The wholly ave

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wholly avoid both the Raen and the Poles.

If the Weather be dark, so as you cannot see Middleburgh, then you must run in by the Lead along the Ript on the N. side of it, keeping E.N.E. till you find the Shoalings, and hard Ground of the English Pole: So you will run between the said Pole and the Raen. But you must keep sounding along the hard Ground of the Bank, and steer a little more Easterly, to shun the Rases which lie thwart of Soutland, and which are steep too: when you are gotten in somewhat farther, go away E. for Flushing, and you will miss all the Shoals.

To fail out of Fluthing at the Spleet, first you must steer W.N.W.till IVelt Chapel comes almost to the Point of the Sandbills, but not without it; or till the Steeple of Middleburg comes to the Inner Sand-bill. Then go away W.S.W. and you run right out at the Spleet. The Spleet is a fair Channel, more than a Mile and half over, and has at least 4 1/2 Fa at low Water. Between Soutland and Diffrook lies a high Sand-hill steep at the East-end, called the Doorne-hill; and another not quite fo high lies to the Eastward, but somewhat long, and has a little Hollow in it, which does as it were divide the Long Sand in two: The South part is called the Inner Sand-bill, because there are no more such high Sand-bills within them, or to the Southward. When Middleburg Steeple comes over the faid Inner Sand-hill, or in the faid Hollow, and keeps there, you may run out at the Spleet, without any danger either from the Pole or the Raen: Nay, it the Wind is Eafterly, you may borrow of the English Pole. The Raen is flat there, to that you may found out along by it, and along the Spleet, when in dark Weather you cannot see the Marks.

Note, When Ardenberg comes without the Sand-hills of Cadfant, then you are fafe past the Dry Rayen and all the Shoals, and may boldly steer to any part where you please.

To fail out of Flushing at the Doorloy with deep Ships, you must set fail so as to come at half Flood or at high Water to the Shoals: to this end 'tis best to go off from Flushing, at about an hour Flood or more, as the Winds may prefent. First go along by the Shore, then steer W.N.W. till West Chapel come within two Ship's length to the Point of the Sand-bills, neither nearer nor farther, left you come upon the Ruen: When West Chapel stands so, and St. Anne's (a flat Steeple to the Westward of Sluys) stands among the E. Sand-hills of Cadfant, then you may go fately out of the Doorloy, failing NW by W. When St. Anne comes to the Westward of the said Sand-hills, then the Castle of Sluys will be behind it; keep it so, and then you may fail out N.W. by W. and go clear both of the Racu and the Rafes: But if you bring West Chapel without the Sand-hills, before St. Anne comes without them too, you will be then too far to the Northward, and soo near the A

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N. B. St. Lambert is a high square Steeple upon Cadfant, to the northward of Sluys.

Thence you may fail East right with Flushing; or else observe the following Directions. Lefwig must not come within Heist, but be kept without it, till you bring the Castle of Sluss to the East Sand-hill of Cadsant; else you will run right against the inner Bank: But when the Castle of Sluss comes to the Sand-hill, then boldly go away E.N.E. and N.E. by E. to avoid the French Pole, till the Steeple of Flushing comes to the Northward of the Prison-gate, when you will be in depth enough; then go away E. by S. right with Flushing. There is no less than 4. Fa. Water on both the Weilings at low Water.

The Inner Weilings, as above, lies thro' between the Inner Bank and Cadfant; when you come into the Weilings from the Westward, and are come on till the West Chapel comes to the Knock, being to go into the Inner Weilings, then go E. by S. and you will see the Buoy on the Point of the Peerdmarkt: leave the Buoy on your Starboard side, and keep St. Lambert's Steept without the S. Sand-hills of Cadfant, till you come near to Skys Harbour.

Note, The Peerdmarkt is a Sand that shoots off from the E. Point of the Harbour of Shyr, and is very steep.

Then fail on N.E. fomewhat Northerly along by the Shore, to avoid a Sand called the *Crake*; and when the Caftle of Mais and the Steeple of M. Lambert's come one in another,

then go away E. right with Flushing.

There is also another Channel which lies thro', between the Inglish Pole and the Raen, called the Spleet: if you are coming from the Sea, and defire to fail in at the Sphet, you must edge towards the Flemish Coast; and when you are by your Reckoning to the Westward of Offend, borrow upon it till you get hard Ground and shoaler Water, and then you may be fure you are upon the Ript. Having found the Ript in 6 to 8 Fa. according as you are either to the Eastward or Westward, edge off again Northward into the Sea, till you find it begin to thoal, and you have hard Ground; and still keep founding the Ript, till you find deeper Water and hard Ground: Then run in E.N.E. edging now and then to the Southward towards the N. of the faid Ript, till Bruges comes upon Lefwig, which is a large flat Steeple, or the Blankenberg bear S. then you are thwart the Raen, and may run into the Spleet: Then bring the Steeple of Mid Heburg over the Inner Sand-hills, between Southhard and Dishook; and with that Mark run in E.N.E. till the Caille of Stress comes to the Eastward of the Sand-hills of Cad-

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To fail out of Fluthing at the Doorloy with deep Ships, you must set fail to as to come at half Flood or at high Water to the Shoals: to this end 'tis best to go off from Flushing, at about an hour Flood or more, as the Winds may prefent. First go along by the Shore, then fleer W.N.W. till West Charel come within two Ship's length to the Point of the Sand-hills, neither nearer nor farther, left you come upon the Raen: When West Chapel stands so, and St. Anne's (a flat Steeple to the Westward of Sluys) flands among the E. Sand-hills of Cadfant, then you may go fately out of the Doorloy, failing NW. by W. When St. Anne comes to the Westward of the said Sand-hills, then the Castle of Sluys will be behind it; keep it so, and then you may fail out N.W. by W. and go clear both of the Raen and the Rafes: But if you bring West Chapel without the Sand-hills, beforc St. Anne comes without them too, you will be then too far to the Northward, and too near the Rafes; or if you bring St. Anne without the Sand-hells of Cadfant, before It eff Chapel comes to the end of the Sand hills, then you will be too far to the Southward, and just against the Raen. But when you bring West Chapel to the Point of the Sand-bills, and St. Anne without them both together, then you are in the best of the Channel.

When you come in from Seaward, and would find this Channel, you must run by your Lead, till West Chapel comes within a Mast length of the Sconce, and so sail in by the Raen, taking the Soundings till St. Anne comes to the said Sand-bill of Cadsant: then go S.E. by E. and you will soon come into

deep Water.

Here you must observe the Tides very exactly, for the Flood comes into the Doorloy sulls, as does the Aster-Ebb afterwards S.S.E. and at last Southward; so that if you would enter the Doorloy at the first of the Flood, you must go S.E. or else you may run upon the Raen. Coming then from Seaward along by the Raen, till St. Anne be lost among the Sand-hills of Cadfant, you must steer S.E. till West Chapet come within the Point of the Sand hills, and then you may run boldly in with Flushing: In dark Weather you may keep along by the Rases, sounding all the way. When you keep the Castle of Sluys to the Eastward of the said Sand-hill of Cadsant, you are then out of danger of the Raen; but when the Church of Sluys stands on the West side of those Sand-hills, then you are thwart the shoolest part of the Raen.

The Bodkil is another Channel leading into and out of Flushing, and lies thro' between the Roses and the Calvo. To fail out from Flushing at the Bodkil, you must run within two Cables length along shore, between the Geer, the Roses, and the Land; you may safely come close to the Shore (which is steep too) with the biggest Ships: The Roses are slat towards the Land. To the Eastward or Southward of Southand in the Fair Way, you have 5 to 6 Fa. and to the Northward and Westward 'tis deeper; and thwart of West Chapel 'tis 8 to 9 Fa.

Bring

Directions for Sailing on the Coasts of Flan

Bring Buyens Church (which is to the E. of West Chapel) over the Mill which is to the Westward, and keep them in one: you may then run right out of the Botkil, between the N. Rases on the Larboard, and a Sand called Caloo on the Starboard fide. In the Botkil you have 4 + Fa. but upon Caloo Sand not

above 3 or 4 Foot.

The Querns is a Flat lying N. of Caloo as far as Domburg: Between them is a Channel with 4 to 5 Fa. Water, called the East-Gat. Whether you fail out or in, you must bring West Chapel to the Northermost Pier of Walcheren, which is easily known; and by that you may go out or come in. Between the Querns and the Land runs another Channel called the Land Deep, having 3 and + Fa. Water. If you are coming in, and would find the Land Deep, you must run into 2 + Fa. thwart of Domburg; keep founding, and as near to the Shore as you pleafe; and run by the Piers or Heads of Walcheren, till you come within. When you are come to far E. as Buvens Church, or Souteland, by any of these Channels, and have the Wind Easterly, so that you are oblig'd to turn up; then you may go between the E. Rases and the Geer, which lies to the Eastward of it, and so come out by the broad Channel into the Doorloy and the Spicet, and then about S. of the Geer to Flushing.

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 fail in or out of Flushing by the Botkil, or by the Channels of the East-Gat, or Land Deep, you must fail about this Stone Bank either to the Northward or Southward; and when you bring Middleburg to bover Domburg, then you are thwart it. If you would go to the Northward of it, you must bring Middleburg half way between Domburg and East Chapel, and so sail towards the Land: But if you would go to the Southward of the Stone Bank, you must bring West Chapel E.S.E. from you in a black Valley of the Sand-bills, and so fail right in. Within this Stone Bank is

8 to 10 Fa. Flushing by of this Stone long, and has to the Eastwa Shore, having ing as aforcia

Before the Sca.

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len at least ha make up till a the Botkil it falls long befo about, the T in at the Char Moon.

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Sailing Directions for the Channels of Ter Veer, Zi Zealand.



Everal Channels run between the Islands of Walches ren and Schowen, all in the Province of Zealand, which affift in forming the several Islands of Zealand, as particularly the Veer Gat, the Roman Pot,

and the Velt.

To go into the Veer Gat coming from the Northward, you must run right with West Chapel, keeping it S. from you till Middleburg come over East Chapel: you must not come at all to the Wellward of the S. for then you will be upon the Benjacet; but keeping it S. as above, you will come past the Benjacrt without danger. Then go right with East Chapel and Middleburg, till Cortgoen come a Capston-bar's length to the

and run thro? Eaftward: Y plat, having ther) those run away to abouts, till t without the right with Shore you g

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e Benel and to the 8 to 10 Fa. Upon this Course, you may also run right into Flushing by the Botkil Channel. A little from the S.W. end of this Stone Bank lies the Oyster-bink, which is not very long, and has 4 Fa. at low Water. Bring East Chapel a little to the Eastward of Domburg, you may then sail towards the Shore, having deeper Water, and so run along by it to Flushing as aforesaid.

The Sets of the Tides in thefe Places.

Before the Weilings a S. by W. and S.S.W. Moon makes full Sca.

At Flushing and Rammekins a S.S.W. Moon.

At West Chapel upon the Island of Walcheren, a S. Moon.

The Tide does not begin to make out till the Water has fallen at least half an hour; and the like at the Flood, it does not make up till after the Water has swell'd half an hour. Before the Botkil it begins to turn an hour before high Water, but it falls long before at Sca. In the Spleet, and on the Shoals thereabout, the Tide turns about against the Sun, and at last falls in at the Channels above-mention'd. 'Tis full Sca there at a S. Moon.

The first 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, first S.S.W. and then past 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 Eastward the Tide turns about against the Sea; whereas from thence to the Westward the Tides do not turn about at all.

Against Zealand in the Fair Way, a third part of the Flood runs towards the Land, and afterwards E. by N.

Note, You may see 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 first to the Eastward: You will also see two Buoys more on the Woolplat, having Tails as the other (they are seen from one another) those you must leave also on your Starboard side, and run away to the Northward of them both, E.S.E. or thereabouts, till the Steeple of Konkirk upon Schowen comes even without the Point of the Land of Schowen: Then you stand in right with the Point, and about it; and keeping by the Shore you go right with Zirrickzee.

You have yet two other Buoys in going for the Point of the Island of Schowen; the one on the Larboard side on the East-crmost Point of the Sand called the Beryart, and the other with Texton the Starboard side on the Point of the Pack.

Sailing Directions for the Channels of Ter Veer, Z

Everal Channels run between the Islands of IValcheren and Schowen, all in the Province of Zealand. which affift in forming the several Islands 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 Well Chapel, keeping it S. from you till Middleburg come over East Chapel: you must not come at all to the Wellward of the S. for then you will be upon the Benjacrt; but keeping it S. as above, you will come past the Benjacrt without danger. Then go right with East Chapel and Middleburg, till Cortgoen come a Capston-bar's length to the Southward of West Kirk, (which are two Towers standing in the funken Land off of the Land of Catts) 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 first Buoy of the Veer Gat. There are 3 large Buoys in the Channel shap'd like Casks; you must leave them all on the Starboard side, but you pass by another Buoy on your Larboard fide, before you come to those three. This last lies on the Point of the Pole of the Sand called the Benjaert, and is shaped as the ordinary Sea Buoys are: The first Buoy in the Veer Gat lies in 3 \frac{1}{2} Fa. the Course 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 against the third lies a Sand called the "Unrest, which lies with a long sharp Point looking towards the faid third Buoy. Channel is not very broad here, between the two Shoals, to you must run close along by the Buoy to the Northward of it. There is not above 2 Fa. or 2 to between the Points of the Unrell and the Buoy; but thwart the two other 'tis broad and deep enough. When you are past the third Buoy, you go right away to Ter Veer. Over-against the Town lies a Flat called the Scotsman, which you must avoid, leaving it on the Starboard fide.

There are feveral Channels likewife to go into Zirrickzee, as the Roman Pot, the Velt, the New Deep, and the Keel. If you would go in by the Roman Pot, and are past between the above-named Buoy on the Point of the Pole, and the first Buoy of the Veer Gat, you then bring Domburg to the Hoot, which is a white Sand hill upon the Island of Walcheren, somewhat like those called the Woolfacks upon the Island of Schowen: Keep them in one, and you will run by two Bnoys more, on your Larboard fide by the Pole, you will also see one Buoy with a Tail lying on the West Point of the Woolplat, over-against the third Buoy of the Pole, you must leave the Buoy with a Tail on your Starboard side.

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Ter Veer, Zirrickzee, and Brewer's Haven in Zealand.

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Talche- and run thro' between them, then go about by the first to the Eastward: You will also see two Buoys more on the Woolplat, having Tails as the other (they are feen from one another) those you must leave also on your Starboard side, and run away to the Northward of them both, E.S.E. or thereabouts, till the Steeple of Konkirk upon Schowen comes even without the Point of the Land of Schowen: Then you stand in right with the Point, and about it; and keeping by the Shore you go right with Zirrickzee.

You have yet two other Buoys in going for the Point of the Island of Schowen; the one on the Larboard side on the Eastermost Point of the Sand called the Beryart, and the other with a Tail on the Starboard fide, on the Point of the Poulvoor, lying between the Island of Schowen and Orefand: You must pals between these two Buoys; all the Buoys with Tails you must leave on the Starboard side, as you go in; and those without Tails on the Larboard: The Fishermen generally venture about to the Eastward of the Polevoot-Sand, and leave the faid Buoy with a Tail on the Larboard side; but then 'tis only by Day-light, and it is not the fafest. You may borrow of this Sand by your Lead, but you must heave very quick in the Night, the Fishermen themselves run close along by the Shore of Schowen. Note, The Shore is very steep.

To fail to Zirrickzee by the Velt, the following Marks will direct you: There stands a Tower with a Beacon upon it, near the Southermost end of Schowen. Bring that Tower a Capstan Bar's length to the Southward of the Southermost end of the Beacon on the West end of Schowen, and you may then go in betwixt the New Sand and the Benjaert, and will have 2 Fa. to 14 Foot Water thwart the outmost Point of the New fand; 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 you must beware of the Benjaert (in this Course) which is very steep, for there is 3 to 5 Fa. close to it on the N. side; but thwart of the Shoal over against Schowen there is 6 to 7 Fa. The New Sand is pretty flat on the S. fo that you may borrow there by your Sounding.

To go by the New Deep, you must observe two Lighthouses a little to the Southward of the Beacons which are on the West end of Schowen: Bring the innermost a Hand spike's length to the South of the outermost, then you may run in fafely with them between the Hide and the New Sand in 16 to 18 Foot Water; running thus till you come near the Shore, you are then enter'd the Keel, which is the fourth Channel: If you bring the two Light-houses into one, and so run in, you

will go over the Tail of the Hide in near 2 Fa.

N. B. The Hide is a flat Sand, and you may venture to come near it on the S. fide by Sounding; but the New Sand is dangerous, very steep, and the Sea breaks upon it with great Force.

The following Directions are for going into Zirrickzee by

the Channel called the Keel.

Upon the West end of Schowen are the two Beacons mention'd above; bring them into one, and run right with them, until a Spire Steeple called Renist come to the Blenk, or Woolfack, a white Sand-hill higher and whiter than any of the other Sand hills; go on thus till Ter Veer come to the Host, which is the Westermost Point of Schowen: Keep them to till you come near the Shore, then run under Shore, and you will have in the shoalest of the Channel 3 Fa. Water, and against the Hoot Point 4 to 5 Fa. between the Hoot and the New Sand, which ebbs dry at some Places of the East end. You may run along by the Shore of Schowen till you come thwart the Southermost Beacon; then edge off towards the Benjaert, to avoid a Shoal which lies off from the Schowen; there is a Buoy upon the near end of it, fo that 'tis eafily known: Some go within the Shoal from the Seaward, but 'tis hazardous. Having past the Shoal, you go away by the Shore to Zirrickzee.

At the other end of this Shoal is another Buoy for those who fail out that way, that they may thun the E fide of it. Those Directions serve also when you go in by the Volt or the

New Deep, after you come into the Keel.

There are two other Channels between the Island Schowen and the Goree; the Southermost which is for great Ships, is called *Brewer's Haven*, the Northermost for smaller Vessels is called Kevitsen, 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 Island Schowen there are 3 Sands thwart of the Brewer's Haven Channel; one called the Broad Bank, or the Bree, it lies at a good distance from the Land, having 7 Fa. upon it, and 19 Fa. within it: The second is nearer the Land, and has 5 Fa. upon it and 7 within it: The third is called the Oofter Bank, which runs in to the Eastward close by the Land, and has no more than 1 Fa. in some places. If you would go into the Channel of Brewer's Haven, you mu't keep to the Westward of this Sand by the following Marks, vi≈.

Bring the two Beacons at the West end of Schozyen into one, and keep them fo till the Steeple of Renist comes on the Blenk runs ri or Woolfack; then leaving the Beacons, keep to the Marks Fore-fl of the faid Blenk and Renift, till a little white Spire Steeple upon the Island of the Goree called Outdrop comes on the Steeple Southe of Gorce, and to you may go in between the Oosler and the the latt Blenk, a little to the Southward of the outermost Buoy, till over the you come within the Ooster, and so till you come near the se-wards t cond Buoy; Or (if there should be no Buoys, till the Bommer then it come a little without the Oftesteert or Ortail, being a Point of two th

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: The fecond thin it: The the Eastward fome places. Haven, you he following

Schowen West of Brewer's Haven. The ...annel that way is broad and deep, and very fit for great Ships. If you turn to Windward either out or in, you may go on either fide of the Sea breaks Buoys, but to the Southward is the deepest Water in the Fairway; except that the third Buoy, which has a Tail, and lies on a Point of Sand which runs off from the Oofter, lies near a finall Shoal, fo that you must not go to the Northward of this Buoy, unless you go close by it. Having past this Buoy, the Shore of Schowen is all clear of Sands, and steep too, with deep Water, and you may run fafely by it all the way to Brewer's Haven. The shoalest of this Channel is 3 Fa. to 3 Fa. 1 Foot, at least for a League beyond the Land, as you come in between the Ooster and the Hides; and farther in it is 4 to 7 Fa. and in some places 10 to 11 Fa. at low Water.

The other Channel is the Kevitsen. To find this, bring the Steeple of Zirrickzee S.E. by S. or rather a little Southerly, and you will fee a Wood, showing it felf near Zirrickzee Steeple: bring that and the faid Steeple into one, and you may run right in, till you come against the Sand, or as near as you can; founding for the Depth. Then you are as far to the Westward of a Shoal called the Westbead as you need to go: being thus come within the Westbead, against a Sand which lies on the South fide, ben go in East along by the there also shoots off a Point, Springer, from the end of wh which you will find by your Lemi, N.E. by N. from the middle of the Springer. When you are gotten beyond that, you may run directly for Brewer's Haven. Also bring the Steeple of Zirrickzee a little open to the Eastward of Onstesseert or Oxtail; then you are clear of a Point or Sand called Onfter bill, which stretches from the Springer towards Brewer's Haven. Thro' all this Channel you have 10 Foot Water in the shoalest.

The Setts of the Tides.

In the Veer Gat a S. Moon makes full Sea. A: Ter Veer a S.S.W. In the Brewer's Haven Channel a S. by W. Moon. Before Brewer's Haven Town a S.W. Moon. At Zirrickzee a S.W. Moon.

Before the Channels of Brewer's Haven and Ter Veer the Flood turns about with the Sun; fo that the After flood runs in at the Channels, and then turns about to the Southward, and ven into one, holds running to till the Ebb: but the latter part of the Ebb on the Blenk runs right out of the Channels thwart into the Sea, and the o the Marks Fore-flood turns about to the Northward.

e Steeple up- Note, It is not good to run in at the Veer Gat with a n the Steeple Southerly or S.W. Wine, before the Flood be half fpent: for offer and the the latter part of the Ebb and the first of the Flood, run thwart oft Buoy, till over the Benjaert hard in at the Room Pot, or Roman Pot tonear the fe- wards the Land of Schowen; but when the Flood is half spent, the Bommer then it runs right in at the Veer Gat. At a S.E. Moon it is ng a Point of two thirds Flood.

Bands tilly news the torreson structure alkaniar, one cannot the Broad Bank, or the Bree, it lies at a good distance from the Land, having 7 Fa. upon it, and 19 Fa. within it: The fecond is neares the Land, and has 5 Fa. upon it and 7 within it: The third is called the Oofter Bank, which runs in to the Eastward close by the Land, and has no more than 1 Fa. in some places. If you would go into the Channel of Brewer's Haven, you must keep to the Westward of this Sand by the following Marks, viz.

Bring the two Beacons at the West end of Schowen into one, and keep them so till the Steeple of Renist comes on the Blenk runs or Woolfack; then leaving the Beacons, keep to the Marks For of the faid Blenk and Renist, till a little white Spire Steeple upon the Island of the Goree called Outdrop comes on the Steeple Sou of Gorce, and to you may go in between the Ooster and the the Blenk, a little to the Southward of the outermost Buoy. till ove you come within the Oofter, and to till you come near the fe- war cond Buoy; Or (if there should be no Buoys, till the Bommer ther come a little without the Ostesteert or Oxtail, being a Point of two

Sailing Directions for the Chann

HERE are two Channels go in between the Goree T and the Briel: the Northermost is called the Quacks Deep, which is for smaller Vessels; the other to the Southward is called the Gorees Gat, where the great Ships go in: and there is a great Flat between them called the Higuer, where at low Water is not above 5 to 7 Foot Water. To so in at Gorces Gat. you must bring the Steeple of Goree and the Beacon upon the Island of Goree in one, bearing E and 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 Wind may ferve, fail in right with it, till you come clote aboard the Shore; and then go within a Stone's-cast of the Land along by it E. by N. and E. till you find the Land fall off Thereabout runs a little Tail of Sand off to the Southward. from the Shore, which you may fail within when you go out, but not as you go in; fo you must edge a little from the Shore. Being past the Tail, Just up again towards the Haven of Goree, and you may come to an Anchor before it.

If you would go up higher to Helvoet fluys, then bring a Mill which is to the Westward of Goree a little to the Northward of Goree Steeple; and keeping it so, run up to Helvoetfluys: By this means you will flun the Flat which lies over against Helwort fluys to the Southward. If when you are going up the Gorce Gat, the Wind should be southerly, and you cannot bring the Beacon and Steeple into one, you may bring the Steeple E.S.E. or a Capston Bar's length to the Northward of the Beacon; and then run over till you come near the Shore, the nearer the better, by which you will run over the Tail of the Hinder in 2 4 Fa. Note, Alittle within the Beacon is the narrowest of the Channel, farther in 'tis wider; 'tis rifing Ground on the N. fide towards the Hinder, but the S. Shore is steep too.

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A: Ter Veer a S.S.W. In the Brewer's Haven Channel a S. by W. Moon. Efore Brewer's Haven Town a S.S.W. Moon. At Zirrickzee a S.W. Moon.

Before the Channels of Brewer's Haven and Ter Veer the Food turns about with the Sun; fo that the After flood runs in at the Channels, and then turns about to the Southward, and holds running to till the Ebb: but the latter part of the Ebb nes on the Blenk runs right out of the Channels thwart into the Sea, and the to the Marks Fore-flood turns about to the Northward,

Note, It is not good to run in at the Veer Gat with a s on the Steeple Southerly or S.W. Wind, before the Flood be half fpent: for Ooster and the the latter part of the Ebb and the first of the Flood, run thwart most Buoy. till over the Benjaert hard in at the Room Pot, or Roman Pot toome near the fe- wards the Land of Schowen; but when the Flood is half fpent, till the Bommer then it runs right in at the Veer Gat. At a S.E. Moon it is being a Point of two thirds Flood.

is for the Channels of Goree and the Maes.

If you come from the Westward, and would find Quacks ween the Goree Deep, you must keep the Steeple of the Brief E from you. and so run as if you were going to the Brief, till a great Country House, which stands a little within the Point of the Quack, comes to the fouthern Sand-hills of the Land of the Briel, which will then bear S.E. from you; keep them to, and run right in, till Oostesteert comes to the Westermost or Southermost Sand hills; then run along by the Shore a little more Southerly, till Goree comes quite open to the Eastward, or within the Sand-hills, and then you are past the Eastermost Point of the Hinder, which the Pilots call the Buyen. you may go to the Gorce, or to the Eastward of Helweet flays, or where you pleafe.

The River Maes opens between the Coast of Holland and the Land of Vooren, and has two Channels; the Southermost goes in by the Land of Vooren or the Briel, and the Northermost by the Shore of Holland. Between these two Channels lies a great Sand called the Honde Flat, where is not above 6 to

8 Foot at low Water.

To come in at the Southermost Channel from the Seaward, and before you are near enough to fee the Beacons, bring the Steeple of the Brul, which is a large square 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 together, and fo run right in with them: Otherwise bring the Steeple of the Brief a Handspike's length to the Northward of Goffvoorn, and to you will be certain to run right with the utmost Buoy, where you have 3 Fa. at low Water. From thence to the fecond and third Buoy you must steer with the Beacons; the fecond Buoy hes in 13, and the third in 11 Foot Water. Thwart of this you will fee the Steeple of Goree a little upon

alled the Quacks the other to the where the great them called the o 7 Foot Water. eeple of Gore , bearing E. and con, then bring nd then as the ou come cloic aone's-cast of the the Land fall off Tail of Sand off ien you go out, from the Shore. Haven of Goree,

er, then bring a le to the Northup to Helvoetwhich 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 steep too.

Directions for Sailing on the Coasts

the Shore of the Land of the Brief. The fourth Buoy lies near upon the same Course from the third a little Southerly, still going right with the Beacons. Between these 4 Buoys is the shoalest Place in the Maes, being not above 10 Foot Water; but at the fourth Buoy it begins to deepen, the Buoy lying in 11 Foot from without 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 either fide by your Lead: but right along, a little to the Southward of the Buoys, is the best of the Channel. The first Buoy lies in from the fourth N.E. by E. on the North fide of the Channel on the Honde Flat in 11 Foot; and this you must leave on your Larboard fide, and go about to the Southward of it. 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 5 Fath. The fixth Buoy lies E. by N. from the fifth in 11 Foot Water. On the North Shore, or Honde Flat, along to the Southward of it, the Channel is at the narrowest, and 5 or 6 Fa. Water: Thereabouts the S. Shore is steep too. Close to it you have 6 to 6 + Fa. As foon as you are past the fixth Buoy, you bring Macfland Sluice and the Steeple of Vlardengen into one; keep them so, till you get the House of Lucht on with Imbrock, and then you will be far enough to the Northward of the Polder, and be by the fide of the seventh Buoy, where you come into 4 and 4 Fa. Water: then you may fail to the Briel, and take a Pilot there to any other Place where you pleafe.

N. B. The House of Lucht stands upon the Dike between Swaertwal and the Head of the Briel. N. B. That all the Depths mention'd above, as well as those in the rest of the Directions for the Maes, are reckon'd for low Water at the lowest Ebb of the ordinary Tides.

To go in by the North Channel of the Maes, and S.W. from Gravefand, you will fee two Beacons: Bring the innermost half a Handspike's length to the Southward of the outmost, which will be E. a little Southerly from you: Keep them there, and you will go right in with the outmost Buoy, which lies in 3 † Fa. low Water.

But if you come from the Northward within the Sands, and keep the Soundings of the Shore in 3 † or 3 † Fa. at low Water, according as the Tides may rife, you then go right with the outmost Buoy; or if you lie still nearer the Shore in 2 Fa. then you will fall with the second Buoy. In all this Course you must go right with the Beacons, which lie in 10 to 12 Foot Water, which is the shoalest of the Channel, right against the

outmost Point of the Land on the North side, but nearer the Honde Flat than the Point; so that you must go about to the Northward of it. You may on occasion go to the Southward, but the other is the broadest Channel.

From this North Point runs off a Tail of Sand, which you must be very careful to avoid; tho it be but small it is steep, and there is a great Breach of the Sea upon it. Sometimes if the Winds are Westerly, the Sea is all in a breadth over the Northern Channel thwatt that second Buoy, so that it does not

der, just again the Briel, ca where is a sliwael, and go Briel.

If you wou Buoys, leavin is the eastmo Crabb, which Briel. But i fore-faid Mark and then alor runs a Tail of ward bound you Heads of Sw Briel to the nother fouthward farther to the way, if you a lot at the Brief

where the Floout for a Wood Point of the you may be in the Tarwe Sa Mouth of the westward into Keep then the Wood, and inhould let the bring too imm of the Sand.

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To the not by which you would go in Steeple of Re Briel come of Rosenburg in the Old Mapast Vlarding may take the a small Shoal nearer the Steeple Maes. It towards the Maes.

If you are are past Sche you come be terdam, then febry and the S. Shore again past Scheidar House upon Charlois, wi

der, just against the Dike between Swartwael and the Head of the Briel, called the Lucht: Bring that on with Ambrock, where is a flat Steeple a little on the Southward of Swartwael, and go right in with them till you come before the Briel.

If you would anchor at the Briel, you must pass too other Buoys, leaving them both on your Larboard-side: The first is the eastmost against the Polder, the second is upon the Crabb, which lies off from Rosenberg, and reaches past the Briel. But if you are bound higher, then make use of the fore-said Marks of Ambrock, till you come near the Shore, and then along by it, till you come to Heenvliet. There runs a Tail of Sand from the E. end of Rosenberg, which upward bound you may go within: But if when you are past the Heads of Swartwall, you cannot bring the Tower of the Briel to the northward of those Heads, but that you see it to the southward, then you cannot pass that way, but must go farther to the southward of it; and it will be your best way, if you are bound to Rotterdam or higher, to take a Pilot at the Briel.

A little to the eastward of Heenvliet goes in the Old Maes, where the Flood lets in very strong; therefore you must look out for a Wood on the S. Shore, a little to the eastward of the Point of the Old Maes: Here, if you are not acquainted, you may be in danger of running upon the Wheat Sand, or the Tarwe Sand, which is a great Flat in the Middle of the Mouth of the Old Maes, lying out with a long narrow Point westward into the Channel, and ebbs dry at low Water. Keep then the Steeple of Rotterdam to the northward of the Wood, and you will go clear of the Wheat Sand. If you should let the said Steeple come to the southward of the Wood, bring too immediately. or you will certainly be upon the Tail of the Sand.

To the northward of the Wheat 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 Rotterdam and the Wood, till the Steeple of the Briel come over a tiled House upon the S. side of the E. end of Rosenburgh: Keep them so, and you will see the first Buoy in the Old Maes. Being past the Mos, keep the Mid Channel past Vlardingen to the Five Stars; and from thence you may take the S. Shore, and run close by it, till you are past a small Shoal, on which is about 11 Foot at low Water, the nearer the S. Shore the deeper. This Shoal lies quite over the Maes. As soon as you are over this Flat, go away right towards the Head of Scheidam, where is the deepest Water.

If you are bound to D. Ift Harbour, then as soon as you are past Scheidam, keep the Soundings of the N. Shore, till you come before the Harbour: But if you would go to Rotterdam, then go still on the same Shore, till you bring Overfebry and the House of Spam into one; then edge over to the S. Shore again, and run along by it: Or as soon as you are past Scheidam, bring the Steeple of Vlardingen over the third House upon the Head of Scheidam, till the Mill and the Head Charlois, with a little Woodupon it, come on together. And

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which will be E. a little Southerly from you: Keep them there, and you will go right in with the outmost Buoy, which

lies in 3 + Fa. low Water.

But if you come from the Northward within the Sands, and keep the Soundings of the Shore in 3 ½ or 3½ Fa. at low Water, according as the Tides may rife, you then go right with the outmost Buoy; or if you lie still nearer the Shore in 2 Fa. then you will fall with the second Buoy. In all this Course you must go right with the Beacons, which lie in 10 to 12 Foot Water, which is the shoalest of the Channel, right against the outmost Point of the Land on the North side, but nearer the Honde Flat than the Point; so that you must go about to the Northward of it. You may on occasion go to the Southward, but the other is the broadest Channel.

From this North Point runs off a Tail of Sand, which you must be very careful to avoid; tho it be but small it is steep, and there is a great Breach of the Sea upon it. Sometimes if the Winds are Westerly, the Sea is all in a breadth over the Northern Channel thwart that second Buoy, so that it does not look like a Channel: but you need not fear to run close along to the second Buoy; for you will have 13 Foot Water at least

at half Flood quite over all.

From this Buoy to the third the Course is a little more Northerly, and you may easily see from one Buoy to the other. When you are at the third Buoy, the innermost Beacon shews to the Northward of the outmost. This third Beacon lies at the North end of the Rassen in 11 Foot Water, so does the second (to the Northward of which you must go about) and the Depth is all the same from the one to the other. The N. Shore is steep, opposite to the second Buoy, but slatter a little at the third. The fourth Buoy lies upon the S. end of the Rassen, S.S.E. from the third.

N B. The Raffen is a stripe of Sand on the East side of the Honde Flat; 'tis steep on every side, and at the same place ebbs dry at low Water.

Between the third and fourth Buoy in the Fair Way is 14 to 16 Foot Water; and this part is by the Fishermen called the Pan: It riles on the N.E. side, where, if you turn it up, you may borrow by your Sounding as shoal as you please. When the Steeples of Munster and Gravesand come open to the Eastward, then you are past the Rassen. The fifth Buoy lies in 11 or 12 Foot Water upon the East Point of the Sand called the New Ribb, which hes from the fourth Buoy S.E. by S. All those Buoys as you go up, you must leave on your Starboard side. A little to the Eastward of this Buoy, the two Channels, viz. the S. and the N. Channels come both into one.

From the fifth Buoy to the fixth, which is that against the Polder, it is near the same Course; but they are to be seen from one another. Thwart of this fixtth Buoy, which you must leave on your Starboard side, you have 2; and near 3 Fa. Water. To the Eastward you will see a House upon the Pol-

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Upon the aforesaid Flat you have not above 7 Foot at low Water, and upon the Shoal before the Harbour but 2 to 3 Foot; and both are steep too. When the said Mill and the Head of Charlois come in one, keep them so till you come to the New Head of Rotterdam; and then run close in between the Town and the Flat, and there come to an Anchor.

The Setts of the Tides.

In Gorees Gat and before Goree, a S.W. by S. and S.S.W. Moon makes full Sea.

Before Helvoet 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.

Before Rotterdam, & a S.W. by W. Moon.

Thwart all these Places, out of fight of Land, it is a Point, or a Point and half later before 'tis full Sea; the farther from Shore, the later.

Between Maes Deep and the Maes, in the Fair way, the first of the Flood comes our of the N turning out by little and little N.E. by N towards the Land. Soon after the Flood makes up without Gauss Gat, it does the like in the Gorees Gat; and so before and in the Maes.

Close before the Channels by the Land, the Tide turns about to the Sun; so that when the after Flood runs into the Channels, it turns southward, and runs like the Ebb.

The after Ebb runs again thwart off to Seaward out of the Channels.

Salling

Sailing Directions for the Coast of Holland,

HE Texel lies N.N.E. northerly from the Maes, diftance 24 Ls. it is a level low Island, and all the way is a clean Coast, which you may come as near as you please in 4 to 5 Fa. also you have Towns, Churches and Steeples in fight all along on the Shore, sufficient for Marks to fail by.

Gravefand is on the N. fide of the Maes, and is eafily known by its high Spire-Steeple. A little to the northward of that is Hey, without any Steeple; but within and near Hey stands a Tower-Steeple call'd Monster: From Gravesand to

Hey is 1 L. thence to Scheveling is 2 large Ls. N.E.

N.B. The Choir of the Church of Scheveling is higher than the Body of the Church.

A little to the fouthward of it is a Beacon or Light-house, and about a League within it is the Hague, where is a high Church, the Choir of which is higher than the rest of the Church, as at Scheveling; the Hague Steeple may be feen far above any Part or Place in the Country. From Scheveling to Catwick is 3 Ls. Here is a square Tower also: It formerly had a Steeple upon it, but it is down: And to the fouthward of it is a high Light-house like a Tower-Steeple. Here if you stand in near the Shore, you may see far within Land upon the Rhine, Rhysburg and Valkenburg, both with Spire Steeples. From Catwick it is I League and a half to Nortwick. Here is a Tower Steeple with a Light-house just by it; and to the northward within the Land is another Town of the same Name, with a square Tower-Steeple, and a little Beacon upon it; and another lesser Tower on the Middle of the Church. Santford is 3 Ls. from Nortwick, with a Spire-Steeple. little from it fouthward is a very high Beacon on a black Sandhill, which looks like a Steeple. To the northward of Santford you fee Haerlem Church far within the Land, and as over a white Sand-hill: The Church appears in form of a t, and has an exceeding high Spire-Steeple upon it: Also there appears a smaller Spire beyond it to the northward, call'd Breeknester.

N. B. Against this Town the Coast falls in, making a large Bay.

From Sant ford it is 3 Ls. to Wick, where is a square Tower Steeple. Thwart of Wick, a little to the northward, you see Beverwick within the Land, a high Spire Steeple. From Wick is 3 Ls. to Egmont; here is a large Tower Steeple like a Sail, it appears on a Sand-hill. A little to the fouthward you

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The next fouthward is call'd Direkoom's Sand-hill, and the next Blenk. From thence they run off floping fouthward, and at length to nothing, or to only a low flat Sand. Upon the E. end call'd the Holder, are some Sand-hills; and betwixt the Holder and Kicker fdown are fome Sand-hills also, like a Dike in the Mid-way, on which stands the outmost Beacon, the great Beacon being more within the Land, E. from Kicker fdown.

Upon the Texel Island are four Churches; the westermost is St. John's, with a high Spire Steeple, but the Sailors call it Wastyend, and Western, and Wambus, all meaning the same. To the westward of it is another Spire call'd the Hoorn: The third is to the northward, call'd the Burgh: The last is the Ough, or Kogh, and is the northermost of all, but has no Steeple, being cover'd with blue Slate.

The Fyerland is a small Island near the N. end of the Texel: at a high Tide it is parted from the Texel by the Sea: 'Tis a little flat Island with small Hummocks, has no Church in it,

and but two Houses.

The Setts of the Tides from the ordinary Observations.

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 quarter Tide right with the Coast Nearer the Coast of Holland and Zealand both Flood and Ebb sets more towards the Land; but in the middle of the Tide it fets right along the Coast, and at last fets to Seaward N.W.

You may know upon this Coast, 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 fourthward the Tide turns about against the Sun, but to the northward it turns about with the Sun, till the last quarter of the Tide, and then it fets towards the Shore.

You have no help at all of the Ebb upon the Coast of *Hol*land for turning to Windward towards the Maes, except our 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 Depth of the Shoals off of the Coast of Holland.

Five or fix Leagues N.E. from the Texel lies 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 Catwick, and to on against Scheveling; the W. fide reaching off 11 to 12 Ls right into the Sea, from NortSantford is 3.Cs. from Nortwick, with a spire-steepie. A little from it fouthward is a very high Beacon on a black Sandhill, which looks like a Steeple. To the northward of Santford you fee Haerlem Church far within the Land, and as over a white Sand hill: The Church appears in form of a †, and has an exceeding high Spire-Steeple upon it: Also there appears a smaller Spire beyond it to the northward, call'd Breeknester.

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From Santford it is 3 Ls. to Wick, where is a square Tower Steeple. Thwart of Wick, a little to the northward, you see Beverwick within the Land, a high Spire Steeple. From Wick is 3 Ls. to Egmont: here is a large Tower Steeple like a Sail, it appears on a Sand-hill. A little to the fouthward you fee another Egmont within the Land, with two high Steeples on the Abbey, standing close together: One has a Spire on it, the other not. A little to the northward stands another Steeple in the fame Town; it flands upon the old Walls, but not fo high as those on the Abbey. These are very particular, and therefore eafily known. Also between Wick and Egmont you fee Cafiricum, and several 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 Honbosch; and a League to the southward hes Camperdown, the N. end of which is very remark. able, being a white steep Sand-hill very high and sloping, the fouthmost part grey and rough, and over-grown with Heath or high Weeds. Farther S. lie several Hummocks or Sandhills, who a fometimes among them is feen a white Spot, by which they are diffinguish'd. From Petten the Land runs out N. by E. to Hnysdown 4 Ls. This is a short Point with white Sand-hills on it, running to the fouthward: The biggest is call'd Kicker sdewn, by the English Sailors Kick Down:

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Sailing Directions for the Channels of the Te

Ithin the Texel, and between that and the Holland's Shore, are three Channels call'd the Channels of the Texel. 1. The Land Deep. 2. The Slenk. 3. The Spaniards Gat.

The Land Deep is the castermost, and goes in between the Shore of North-Holland and the Hakes Shoal or South Sand,

and has 4 Buoys in it.

If you come from the fouthward, and would find the Land Deep, take the Soundings of the Shore in 4½ Fa. and then keep along by the Shore, and you will come right with the utmost Buoy: But be sure you come no nearer the Shore, for sear of the Tail of a Sand call'd Arian Berker's Creek, which shoots off from it to the southward of Blenk, by the South Sand-bill; otherwise if you come with an open Wind, keep the great Beacon upon Hunsdown over Direkoom's Sand-bill,

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Of the Nature and Depth of the Shoals off of the Coast of Holland.

Five or fix Leagues N.E. from the Texel lies 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 Catwick, and so on against Scheveling; the W. fide reaching off 11 to 12 Ls. right into the Sea, from Nortwick to Catwick: It has upon it 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 Fa. you will begin to fee the Land.

To the fourhward there lie off upon the Coast off Holland alfo, three small Shoals or Sands: They are broad and shoal near the Land, but grow sharp and deep towards the Ends. The Fishermen call the first the Small Eight, it begins a little to the fouthward of Egmont (by the Sea.) The second is call'd the Witterib, and lies thwart of Wick; the third, which is the fouthermost, is call'd the Hard, a little to the northward of Santford.

The high Steeples on the Coast of Holland, mention'd above, as Inner Egmont, Wick, Santford, and others, are feen 5 Ls. from the Land, and long before you fee the Sandhills on the Shore, that is, upon the S. end of the Fourteens in

14 to 15 Fa. But you fee Camperdown, and the Sand-hills thwart of Haerlem, before you can fee fome of the Steeples. The Steeples along this Coast are most of them flat, like Towers.

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and fail right in that way, and you will likewife meet with the outermost Buoy.

Note, The Beacon is a little to the fouthward of Kirkf-

down, only not to high.

The second Buoy lies in 4 4 Fa. low Water near the Wester Grounds, or South Sand; leave it on the Larboard-fide, and run along to the castward of it between it and the Shore: It lies in NE. and N.E. by N. 'tis all fafe on either fide, unless you run a-shore.

But be fure to avoid a Shoal lying off from the Shore thwart of Kicksdown; so you must edge a little from the Shore there. When you come to the fecond Buoy, you will fee a Mill to the northward of Kickfdown; and at the third Buoy the Mill and Cane-Nelles House come into one. Those two Buoys lie in 5 Fa. at low Water.

From

Directions for Sailing on the Cod

From the third to the innermost Buoy it is N.E. by E. you must go in close along to the eastward of it, to avoid the faid little Tail of Sand which lies thwart off from the Shore; and then run within a Bow-shot about the Heads, and by the Shore of Helder: For to fail from the Helder towards Wieringen Flat, your Course is N.E. or a little easterly, as the Wind and Tide may be, otherwise go by the Texel in 8 to 9 Fa. till Horn comes to the northward of Zuydhaftel, which is a small Parcel of Houses to the northward of the Sconce; but take heed of the Wieringen side, for 'tis so steep there, that you may have 12 or 13 Fathom at one Cast, and be a-ground be-fore you can heave the Lead again: Therefore when you have Horn and Zuydhaftel in one, keep them so, and run up to Voogelsand; and when Eyerland comes open without the E. Point of the Texel, then you are come the length of the Buoy upon the Burg sand 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 Voogelfand it is E. by N. and you may make use of the above Marks of Horn and Zuydhaftel, till you have the Beacon upon the Texel and the Mill of Easter Point in one: Then leaving the first, keep them in one, and run up to the Beacon upon the Ness; and so you will keep the best of the Channel, which is 10 to 12 Fa. If the Mill should be but a little to the westward, you will be too close to the S. Shore, which is so steep that you must not come nearer it than 8 or 9 Fa. especially in turning to Windward. Being about the Nefs, go away S. and S. by W. towards the northern Buoy, which lies on a little Flat. If you would go up to Amsterdam, take a Pilot from the North

Holland Shore.

The next Channel by the Texel is the Slenk: This lies between the Keyfars Flat and the South Sand, and has fix Buoys in it. If you come from Seaward, and would go in at the Stenk, you must bring the Steeple of Horn, and the Beacon upon the Texel into one, bearing E.N.E. northerly; fail fo right in with them, and you will go in fight of the outermost Buoy, which lies from Kicksdown W.N.W. westerly, and from the Helder W. If you come from the northward or the westward, then bring Kickfdown E.S.E. from you, or the great Beacon upon Huy/down a little to the northward of Kickfdown, viz. between it and Cane-Nelle's House: Run right in with them, till you bring the Beacon upon the Texel and Horn Steeple into one; then you have the length of the outmost Buoy, which lies in 4 \(\frac{1}{2}\) Fa. at high Water, and 2 \(\frac{1}{2}\) at low Water. Keep the Sceeple and Beacon thus in one; and as you cannot fail feeing the outmost Buoy, so you shall go on till you pass the third Buoy, for they lie all alike, as do the 4th and 5th. In the Middle of the Fair way, to the fouthward of them, is the deepest Water: The Shore on that side is also very steep, you will at one Cast of the Lead have 4 Fa. at the next but 2, but the N. fide is flat going up. The fourth Euroy lies E.N.E. eafterly from the third; the fourth and fifth E. by N; the fifth and 6th E. by N. and E.N.E. The second at low Water lies on at the shoalest of the Stenk; the rest lie at

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3 Fa. to 3 Foot: but the E. Shore is flat, and you may run along by it with your Lead, till you come within the fix Buoys. The innermost Buoy of the Slenk makes the seventh, and lies upon the Tail of the Keysars Flat: this lies from the sixth Buoy S.W. but the Helder S.E. There's no danger if you go from the sixth Buoy to the Helder, or to the Buoy upon the Tail, and so along the S. Shore, which is also very steep, or right to the Helder, as the Wind and Tide gives leave.

N.B. The first of the Flood runs very strong N.N.E. over the S. Ground to the Spaniards Channel, 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 close along by it, to avoid a Tail which stretches out from the Geest Sand, and lies off; and you must leave the Buoy which is upon it on your Larboard side. Being past the Helder, go away N.E. casterly, or along by the Texel in 8 to 9 Fa. into the Capeveaders Road: then take the Directions of your Pilot, as above.

If you would fail from the Capeveaders Road out to Sea by the Texel, you must steer S.W. westerly to the Helder, or run along by the Texel in 9 to 10 Fa. till you come near the Helder, and then out again N.W. by W. and W.N.W. clote by the Shore of the Helder, and fo by little and little more northerly, till you bring the two Beacons of Huysdown into one, or that the greatest come to the westward of the least: Then run out N.N.W. a little northerly, or westerly, according as the Wind and Tides shall be, till you come against the N Shore in 5 to 6 Fa. then run boldly along by the Shore, till you are clear out at Note, when the Steeple of St. John's, which the Sailors call Wambus, bears N.E. from you a little easterly, then you have the length of the innermost Buoy of the Spanish Channel, which you will fee on your Larboard-side. 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-side. The outmost Buoy lies N. a little westerly from the fifth upon the Point of the Keyfars Flat. You may go a little way to the westward of it, but not far, for the Keyfars Flat on the E. side is very steep to the outmost Point of it. When you are thwart of the faid outmost Buoy, then the Church at Coog lies E.N.E. catterly from you, and the two Beacons upon Huy fdown are in one.

To go out at the Land Deep, you must keep within Bow-shot of the Shore of Huysaown, and about by the Heads, and you will not fail to find the innermost Buov, which lies near the W. Shore in the shoalest 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 Buoy there is a Tail of Sand runs off from the Shore to the Buoy; therefore you must run close by the Buoy, leaving it on your Starboard-side. Besides this, there are three other Buoys in the Land Deep, which in sailing out you must leave to seaward, and go between them and the Shore. When you are

Buoy, which lies from Kickfdran W.N.W. wellerly, and from the Helder W. It you come from the northward or the westward, then bring Kickfdown E.S.E. from you, or the great Beacon upon Huy/down a little to the northward of Kick/down, viz. between it and Cane-Nelle's Houfe: Run right in with them, till you bring the Beacon upon the Texel and Horn Steeple into one; then you have the length of the outmost Buoy, which lies in 4 + Fa. at high Water, and 2 + at low Water. Keep the Sreeple and Beacon thus in one; and as you cannot fail feeing the outmost Buoy, so you shall go on till you pass the third Buoy, for they lie all alike, as do the 4th and 5th. In the Middle of the Fair way, to the fouthward of them, is the deepest Water: The Shore on that side is also very steep, you will at one Cast of the Lead have 4 Fa. at the next but 2, but the N. fide is flat going up. The fourth Buoy lies E.N.E. easterly from the third; the fourth and fifth E. by N; the fifth and 6th E. by N. and E. N. E. The second at low Water lies at 20 to 21 Foot at the shoalest of the Sleuk; the rest lie at 4 Fa. in low Water; and the fixth and last in 3 Fa. upon the Point of the Tail of the Keyfars Flat. Note, You must not go to the northward of the Slenk, but leave it on your Larboard fide: And you must reckon your Tides very well; for in the Slenk the first of the Flood sets N.N E. on the S. Grounds till half Flood, and the Ebb S.S.E. until half Ebb. When you are within the last Buoy, it is wide, and you may go from thence right to the Helder S.S.E. and to upwards, as by the Marks for the Land Deep; for here the two Channels meet. The third Channel is call'd the Spaniards Gat, and there are

fix Buoys in it: This lies betwirt the Texel and there are fix Buoys in it: This lies betwirt the Texel and the Sand call'd the Keyfars Flat. To come into this from the North Sea, you must bring the two Beacons of Huyfdown into one, or the biggest, which is the southermost, a little to the eastward of the other; then they will bear S.S.E. from you. Keeping them so, go right in with them, and you will come in fight of the outmost Buoy; and then Coog Church will bear E.N.E. from you: But if you come in from the southward or westward, you must bring it no farther N, than E.N.E. but rather easterly, and then sail right in till the Beacons come together; otherwise you will be too near Keysars Flat, which is on the N side and very steep. You must also be sure to go to the westward of the outmost Buoy, there it is broadest.

From the outmost Buoy to the second the Course is S.S.W. From thence by all the rest to the fixth it is S. by W. and S. easterly. The fixth Buoy is call'd the Buoy of the Beacon and Steeple, because it lies right with Horn Steeple and the Beacon upon the Texel. All the Buoys lie on the W. Shore in a Line: You may for need go to the westward of them, but not far; for the Shore is to steep, that in a Ship's length you come from

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out are left on the Larboard-side. The outmost Buoy hes N. a little westerly from the fifth upon the Point of the Keysars Flat. You may go a little way to the westward of ir, but not far, for the Keysars Flat on the E. side is very steep to the outmost Point of it. When you are thwart of the said outmost Buoy, then the Church at Coog lies E.N.E. easterly from you, and the two Beacons upon Huysdown are in one.

To go out at the Land Deep, you must keep within Bow-shot of the Shore of Hnysdown, and about by the Heads, and you will not fail to find the innermost Buoy, which lies near the W. Shore in the shoalest 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 Buoy there is a Tail of Sand runs off from the Shore to the Buoy; therefore you must run close by the Buoy, leaving it on your Starboard-side. Besides this, there are three other Buoys in the Land Deep, which in sailing out you must leave to seaward, and go between them and the Shore. When you are past the outmost, you are clear of the Shoals, and may go where you please.

To go out of the Slenk you must run along to the south-ward of the innermost Buoy on the S.E. of the Keysars Flat, leaving it on your Starboard-side: Then run out W. and W. by S. to the second and third Buoy, and from the third to the fourth and sisth, W.S.W. The outmost lies more southerly.

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 longer in, and the Ebb longer out.

It begins to flow without and on the Shoals at a S. Moon, a

Ittle to the westward.

The first of the Flood and the after Ebb sets 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 first of the Ebb with the after Flood sets right in at the Spaniards Channel S.S.E. over the S. Grounds, and thwart over the Slenk and other Channels, till half Ebb.

A little before half Flood it begins to run right in at these Channels, and a little before half Ebb it sets right out.

N. B. It is of great Concern to keep an exact Reckoning of the Tides in failing into these Channels, either inward or outward.

Sailing Directions for the Zuyder or South-Channel of I

F you are going to Sea from Amsterdam, with any Vessel drawing 10 Foot or more, you must keep the Middle of the Channel in failing to Tyoort, and thence over the Pampus: Then keep Marken Church without the Land of Vdam, till the Steeple

of Zuyderwoum comes past Kenningherheurt, which are the Houses betwixt Schulebocks Harbour, (that is, Vdam) and Durgerdan: Run in then E. towards Land, till the new Church of Amsterdam come about Durgerdam; keep it so till the Church of II cesp comes behind the Castle at Muyden, rather nearer the Church than the Castle. Keep Weess so, till Edam come without the E. end of Marken. In this Fair way you have one Foot more Water than if you fail'd thro'.

To avoid the Sand of Muyden, bring the Houses of Tyoort to the fouthward of Heyligher-flee at Amsterdam, they are good long Marks. When Monnik dam is at the W. of the Schitleducks Harbour, and the House at Muyden between Weeff and the Church of Muyden, then are you thwart of Muyden Sand: And to keep the Steeple of Diemen over the Point of Troort, as long as you can see it, is the long Mark

to fail over the Pampus.

When you are thwart the E. end of Marken, fail then N E. cafterly towards the Fall of Urk, diffance 7 Ls. Within 1 L. of Urk is a hard Sand call'd Houtrib, lying thwart over the Fair way S.E. and N.W. There is no more Water there than upon the Flat of Wierengen off of Friefland, or than right When Enchussen is N.W. and N.W. by W. from you, then you are upon the Houtrib. You may fee the Light upon "Ork before you come against the Sand. When ever "Ork, or the Light upon it, bears more northerly than NE. from you, and you have got Shoalings, 'tis certainly on the Floutisb; and keeping to, you will avoid the Enchuyfen Sand.

When you come from the fouthward, you are not near the Exchangen Sand, before the Church upon Urk come without the little Village there; and then Urk is E. by S. and E.S.E. from you. If then you go away N.W. by W. or W.N.W. you will run close by the fide of the Sand; and if you bring the Church upon 'Urk to bear S.S.E. from you thro' the Houses, then you may go boldly on N.W. by W. or keep Medenblick upon the Point of the Ven, and meet with neither Sand or Likewife coming from the northwards, bring Urk not more casterly than E.S.E. from you, and you shall avoid Enchayfen Sand.

10 the middle between the Buoys of the Cripple and the the Course is N.W. by W. from 'Urk: With that Course you may run in to the southmost Buoy upon Wierth to ca th th Sa

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Cripple and the n Urk: With uoy upon Wier-

From the Buoy on the Creyl to the Buoy on the Frees Plat the Courie is N.E. When the Steeple of Twifeh comes a little to the northward of Medinbleck, keep them so as long as you can see them, and you'll find no Shoal between the I lat and the Creyl; but between the Buoy on the Creyl and that on the Frees Plat on the W. Shore along the Reach, lies a hard Sand call'd Monick Sand, which you may be foul of if you go too sar over to the westward.

When you are about the Creyl, go away N. by E. (if you draw but little Water) over the Broad Sand, right to the Buoy upon Well Worcum Sand; but with large Vessels keep the Fair way. To find the deepest part of the Flat, bring Pendragen, a little square Steeple which is to the westward of Worcum, to the westward of a little Village which is also to the westward of Worcum; and fail so with it, and you will run right with the Buoy upon the Frees Plat: And when Warnis and Mirnes come into one to the northward of Staveren, you have the length of the Buoy on the W. side of the Plat: Then run along to the westward of it, because there the Water is deepest. When you come to the northward, you may go within the Frees Plat Buoy on the E. Shore.

When you are past the Frees Plat Buoy, go on N.N.E. till Pendragen come between the little Village and Voor Wolde: If then the Cliff lies thro' Staveren, you are in the deepest Then run a little more northerly to the Buoy in the Bight or Bocht, which lies in 16 Foot in the Fair way, and go a little to the westward of it; but to the castward of it, is deepest; and the further in towards Friesland, the deeper. The Marks of the Buoy on the Bight is the little square Steeple of Mirnes to the fouthward of Malqueren; bring the Steeple to bear within Malqueren, and keep it so till you come in the Fair way of the Buoy of West Worcum. Note, This is a good Mark when the Buoys are taken away. The old thwart Marks of this Buoy on the Bight, are Mirnes, Malqueren, Henclum, or Hinlopen, and a little long Village: When they fland in four Parts between the Buoys on the Bight and on the Frees Plat, it is the shoalest of the Flat; when the former is on your Broadfide, then go on N. by W. westerly to the Buoy of West Woreum, which is on the E. Shore in 16 Foot Water, upon these Marks, viz. a little Spire-Steeple call'd Harich, far within the Land, coming over a little Village on the N. of Hinlopen call'd Dert fwick, the depth thwart of it is 3 Fa.

The old Marks are two Villages near Mackum at the Water-fide, and NE. from it; and to bring these a little from one another, and two little Steeples to the northward of Bolwart,

and you have got Shoalings, 'tis certainly on the Houts ib; and keeping so, you will avoid the Enchuysen Sand.

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When you come from the fouthward, you are not near the Encharsen Sand, before the Church upon Ork come without the little Village there; and then Ork is E. by S. and E.S.E. from you. If then you go away N.W. by W. or W.N.W. you will run close by the fide of the Sand; and if you bring the Church upon Ork to bear S.S.E. from you thro the Houses, then you may go boldly on N.W. by W. or keep Medenblick upon the Point of the Ven, and meet with neither Sand or Shoal. Likewise coming from the northwards, bring Ork not more easterly than E.S.E. from you, and you shall avoid Enchargen Sand.

To the middle between the Buoys of the Cripple and the Iloffiede the Course is N.W. by W. from *Urk: With that Course you may run in to the southmost Buoy upon Wieringen Flat. You may, if you turn it, bring Wieringen or Mediablee: a little within the Point of the Ver: But when it is without, you are in the Fair way. There lies a little Flat of hard Sand between *Urk* and the Buoy upon *Hosfiede* N.E. easterly from the Steeple of *Enchuysen*; it lies towards the end of the *Enchuysen* Sand, where it is not deeper than upon the *Frees* Flat.* The Way by the W. of it is call d the *Cattegat*; and by that way you will be the sooner clear of the *Enchuysen* Sand or *High Horn.* But to the eastward is the deepest Water, the other therefore is for Vessels that draw but little Water.

The Spire-Steeple of Grootebrocek and Hem brought one against the other, are the thwart Marks of the Buoys of the Cripple and Hofflede; also Wainis, a low Spire-Steeple in Friefland, brought to the S. side of the Cliss of Stavern. Then you have the length of those Buoys which lie in 3 Fa. Water, one on the E. upon the Tail of Hosflede, the other on the Tail of the Cripple, on the W. Shore in the Fair way, 2 Foot less than 5 Fa. soft Ground. When the Steeple of Medinbleck comes to the broad part of the Houle of Medinbleck, then you are past the Cripple Sand; then go N.W. and N.W. by N. to the Buoy of the Creyl, as Wind and Tide may be: The Fair way there is scarce 5 Fa.

Thwart of the Creyl, a little within it on the N. Shore, and towards the Buoy upon the Hoffede, lies a hard Sand or Bank call'd the South Creyl, on which is but 2 Fa. at low Water; but between that and the N. Shore it is 3 Fa. and foft Ground; and to the fouthward or westward of it 'tis 4 Fa. When a little square Steeple call'd Mirnes in Friesland comes over a long County House to the southward of the Cliss of Stavern, then you are thwart this Bank. The Marks of the Buoy upon the Creyl is the Spire-Steeple over the Corn-mill to the westward of Medinbleck; and the little square Steeple of Macins to the S.E. side of the Cliss is the right Fair way, there is $4 \stackrel{?}{\sim} to 5$ Fa. soft Ground; the Buoy lies in 4 Fa. If need be, you may run a Cable's length to the eastward of

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Steeple to bear within Malqueren, and keep it to till you come in the Fair way of the Buoy of West Worcum. Note, This is a good Mark when the Buoys are taken away. The old thwait Marks of this Buoy on the Bight, are Mirnes, Malqueren, Hemelum, or Hinlopen, and a little long Village: When they stand in four Parts between the Buoys on the Bight and on the Frees Plat, it is the shoalest of the Flat; when the former is on your Broadside, then go on N. by W. westerly to the Buoy of West Worcum, which is on the E. Shore in 16 Foot Water, upon these Marks, viz. a little Spire-Steeple call'd Harich, far within the Land, coming over a little Village on the N of Hinlopen call'd Dertswick, the depth thwart of it is 3 Fa

The old Marks are two Villages near Mackum at the Water-fide, and NE. from it; and to bring these a little from one another, and two little Steeples to the northward of Bolware, as near together as the other are as under: One is call'd

Idsegabuvsen.

The thwart Marks are, to bring a high House on the E. end of Condom near to the S. end of Hinlogen: From thence to the Buoy upon Tybelboeck the Course is N. The Marks are, a little Spire-Steeple with the first long Village to the northward of Horeum call'd Geest: When that Steeple comes in the innermost Swamp of the long Village, then you are thwart the Buoy.

The longest Marks are, the Spire Steeple of Pingom over the square Steeple of Coorenwaert at the Water-side, and Pendragen over the little House to the northward of the Village with the Swamp; or when the Mill of Staveren comes between the Town and the Block-house. These are all good longst Marks of the Buoy Tyhelboeck. From thence to the middle Ground the Course is N the depth of the middle Ground 7 Fa. in the Fair way: Between Worcum and Tyhelboeck it is 4 Fa. soit Ground; the E. Shore is slat, and the W. Shore steep.

The Buoy of the middle Ground lies upon those Marks; the two Spire-Steeples Arund and Pingom brought into one about N.E. from you, or Bolfwaert right with Mackham; good thwart Marks.

The longest Marks are King fwart (which is also call the Runner) brought behind the Church of Suriek, which is near the Water-side, upon a Point that runs out about N is by N. from the Buoy; then you are right in the Fair way: Or when the Tower-Steeple of Wynum to the northward of Harlingen comes between Midlum and the E. end of Harlingen, then you are right with the Buoy of the middle Ground, and are nearest to that which Wynum is nearest to. The W. Shore is steep, the E. Shore a little slat; you may run over it in 3 Fa. and come into 5 Fa. towards Friesland. From the middle Ground outwards to the Fly there are no Tails of Sand on the West Shore.

Being then past the Buoy on the middle Ground, go on N.N.W. to the Buoy upon Swambalgh, which hes on the E.

Directions for Sailing on the Coasts of

Shore in 3 Fa. The thwart Marks are Bolfwaert over a little low House to the southward of Coorenwaert. When you go over between the Buoy on the middle Ground and Swanebalgh on the E. Shore, stand no farther easterly than into 3 Fa. and then you will come again into 4 to 5 Fa. You might, outward bound, sail 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 † over-against the Buoy

upon Swanebaigh, and good Ground to anchor in.

From this Buoy to the Buoy upon Schuyte fand the Course is N.W. northerly: the thwart Mark is Winaem, brought over the highest part of Harlingen: the longest Mark is Bolfwaert, brought to the Northwards of the Sluyer, 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 fail within it, and have 7 to 8 Fa. and you may keep along the West Shore in 4 Fa. indifferent flat, the East Shore steep; but a little without the Buoy 'tis flat as far as Keeshoeck, and you may found it all along to the Shot. You may also go within the West Shore over against Schuytesand, or to the Southward of it, in 3 Fa. to 3 into a dead Swatch behind the Tail of Sand called the Point of Waert; and keeping in 4 Fa. on the West Shore, you go clear of it: This is in failing Also if you go up with the first of the Flood, keep the E Shore, to avoid being driven into a dead Swatch behind the Waert before you are aware. There is a Beacon upon the Point of the Waert, and to the Northward and Westward two more, called the Beacons of Claefvomen; and to the Southward of the Waert is a Beacon upon Dominicus Plat, which the Pilots call Mynsen Plat.

The Marks for this long Passage are Mackum, brought to a Mill at the Water-side, and a Village called Idsephanysen, with a little Tower Steeple to the Southward of Mackum. When Pendragen comes between Mackum and the Village, you go clear of the said Tail or dead Swatch; but if it come nearest to

Mackum, then you are too much upon the E. Shore.

From Schytefand to the Buoy upon Keeshoeck, you must go W.N.W. or N.W. by W. as the Wind and Tide may be: For the Tide in this long Passage runs little more than half Tides, which you must well observe along the Deep. The last half of the Flood, and the first half of the Ebb sets over to the Westward; and the first half of the Flood and the last half of the Ebb to the Eastward.

The Marks of the Buoy upon Keeshoeck are, Franiker Steeple between the Mill and the Town of Herlingen, or to the Mastheads of the Ships in the Harbour: This Buoy is on the East Shore. The Fair Way, and thwart it, is 8 to 10 Fa. Between it and Schytesand, or between the Beacons of Claeswomen and the Point of the Waert, there is almost in the middle of the Fair Way a little narrow Plat, which lies along the Reach nearest the West Shore; it has 3 † 20 4 Fa. and you may be over it in two or three Casts of the Lead.

Westward from Keeshoeck lies the old Fly, first S.S.W. then S.W. to the Buoy on the Ness in the Texel Stream. The last half of the Flood and the first half of the Ebb sets very strong

The Island of To the Westward are is a Cherch, we end there shoot Westward of the Eyerland, called is for simall Vestware. At the are Marks to average Marks to average the end of Flyendare the

Schilling lies two Churches a led Brandaries, Spire Steeple cathe E. lies fome Light-house, and for the E. Cham

To fail into telmeck, bring t houses together, and you come outmost long Ba coming from the fall in with the run over the enbut not far to th to the westward out S. near the tween this Tail to the Eastward the end of the thought themsel run into the faid if they have th unless they com come from the V light, you will r and near Storte nearer the Shore Buoy. Within S onc: Going in the white one or leaving all the d Jetting, and th out, keep a littl against the first I

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The Island of Fly is 3 Ls. long, and very easy to be known: To the Westward it is sull of little low Hummocks, and upon the E. end are several high white Sandhills. At the West end is a Cherch, with a Mill to the Eastward of it; from the end there shoots off a Rist a good way into the Sea; and to the Westward of the Rist goes a Channel between Flykand and Eyerland, called the Westergat, or Westsield Deep: But this is for small Vessels only, there not being above 8 to 10 Foot Water. At the E. end is a Mill with a Cape or Beacon, which are Marks to avoid the Grounds before the Fly. Note, The E. end of Flyeland and the W. end of Texel lie 3 Ls. assunder.

Schilling lies E. from the Fly, and is about 3 Ls. long, with two Churches upon it. At the W. end is a high Tower called Brandaries, with a Mill by it. About the middle is a Spire Steeple called Midlands, and the Hoorn is a Mill. At the E. lies fome little Hills or Downs; at the W. end is a Light-house, and two Capes or Beacons: The biggest is a Mark for the E. Channel, and the least for the W.

Stortelmeck Channel.

To fail into the Channel of the Fly, which some call Stortelmeck, bring the Beacon at the end of the Fly and the Lighthouses together, bearing from you SSE. casterly: keep them so, and you come right with the first Buoy lying in 5 Fa. on the outmost long Bank: This Bank on the North side is flat, to that coming from the North, and keeping in 5 or 6 Fath. you will fall in with the outmost Buoy. If you are put to it, you may run over the end of the Long Bank in 3 Fa. towards the Shore, but not far to the Eastward of the second Buoy, for a good way to the westward there is a Point of a small Tail of Sand runs right out S. near the Buoy; on it there is but 11 Foot Water: Between this Tail and the long Bank, hes a Swatch in the Ground to the Eastward, where is 5 Fa. Water. Some coming over the end of the Long Bank, and finding deep Water, have thought themselves in the Stortelmbeck; and to luffing, have run into the faid Chop or Swatch between the two Tails: But if they have the Wind Westerly, they are in great danger, unless they come about, and run out as they come in. If you come from the W. along by the Fly in 4 to 5 ha, and by Daylight, you will not fail to fee the outmost Buoy if in the Night, and near Stortelmbeck, bring the Light-houses S.S.E. and run so nearer the Shore, and then you go to the westward of the outmost Buoy. Within Stortelmbeck 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, leaving all the other white Buoys both in Booms Channel, the Jetting, and the Fly Streams, on the same side. In coming out, keep a little off from the Shore, for there is a Shoal right against the first Buoy of the seven.

The fecond Buoy, called the outmost *Droog Drie*, has in 11 Foot; upon the shoalest of the Channel S. there is the same Depth, but a little farther is 16 Foot.

The third, called Innermost Droog Drie, lies in 16 Foot in

clear of the Rid Pair of Gent Swatch, our in it come dearered to

Ma kum, then you are too much upon the E. Shore.

From Schytefand to the Buoy upon Keeshoeck, you must go W.N.W. or N.W. by W. as the Wind and Tide may be: For the Tide in this long Passage runs little more than half Tides, which you must well observe along the Deep. The last half of the Flood, and the first half of the Ebb sets over to the Westward; and the first half of the Flood and the last half of the Ebb to the Eastward.

The Marks of the Buoy upon Keelhoeck are, Franker Steeple between the Mill and the Town of Harlingen, or to the Mastheads of the Ships in the Harbour: This Buoy is on the The Fair Way, and thwart it, is 8 to 10 Fa. Between it and Schytefand, or between the Beacons of Claefvomen and the Point of the Waert, there is almost in the middle of the Fair Way a little narrow Plat, which lies along the Reach nearest the West Shore; it has 3 to 4 Fa. and you may be over it in two or three Casts of the Lead.

Westward from Keeshoeck lies the old Fly, first S.S.W. then S.W. to the Buoy on the Nefs in the Texel Stream. The last half of the Flood and the first half of the Ebb sets very strong into this Channel. In going up you may go within the Buoy in 4 Fa. the Marks are, the Steeple of Franker brought to the Southward of the Steeple of Harlingen; then go outward over the Schiering shals; the W. fide is steep, 8 Fa. close to the Shore. In the Fair Way, between the Buoys, and thwart the

Buoy upon the Elbow, is 10 to 11 Fa.

From Keelhoeck to Woolhoeck you go first N.W. then W.N.W. to the Buoy between them, call'd the Schor Tun, or the Buoy on the Elbow; and from thence to the Buoy upon Wool/hoeck N. fomewhat Easterly: it lies in 4 Fa. on the E. Shore. From thence to the Buoy upon Schiering shals your Course is N.N.W. and N.W. by N. according as the Wind and Tides are N.E. of the Buoy upon Woolthoeck, is a broad Bight reaching S.E. far into the Grounds, called the Infebot; there is 7 Fa. at the going in. The first of the Flood sets from Schieringshals very strong in there. On the contrary, the first shoot of the Ebb runs very strong out of it upon the Tail of Schiering shals, and has cauled many Ships to be loft. This Tail shoots off from the W. Shore, there is a white Buoy upon it in 3 to 4 Fa. Coming from without, you may go within it in 6 Fa the right depth between Woolshoeck and Schieringshals in 9 Fa.

From Schieringshals to Long fand is N.W. and N.W. by N. between them both on the W. Shore is shoal Water; this is the best Road in all Fly Stream, and there runs but little Tide; in the Fair Way you have 8 to 10 Fa. In turning up, you may go within the Longfand Buoy upon the E. Shore, keeping in 7 to 8 Fa. and then you will not be too near either the Schieringshals or the Longsand. When the Eastermost House upon the Grind comes a little to the Northward of the Westermost, you have then the length of the Buoy upon Long. fund. From Long fund to the Sloot you go N.N.W. and in the Fair Way there is 10 Fa. or you may run along by the Beacons

upon Crakefand, till you come into the Sloot.

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The second Buoy, called the outmost *Droog Drie*, lies in 11 Foot; upon the shoalest of the Channel S. there is the same Death, but a little farther is 16 Foot

Depth, but a little farther is 16 Foot.

The third, called Innermost Droog Drie, lies in 16 Foot in

the Fair way: between both is 3 Fa.

The fourth is called Heyekhoeck: Between the 3 Buoys and this is 5 Fa. Over-against this Buoy lies the white Buoy on the Strand; near it runs a little Tail of a Sand from the Shore, which you may run over. When you are going out to this white Buoy, which is the third from without, it stretches N. N.E. from the 4th to the 5th almost East

The 5th Buoy is called the Outmost Corner Buoy.

The 6th the Middlemost Corner Buoy.

The 7th the Inmost Corner Buoy.

Between the outmost and middlemost there runs a Tail of Sand from the Shore, which you may sail over from without; it reaches almost to the Buoy; there the Stream breaks thro' the Wall, and scours the Tail over to the N. Shore. From the innermost Buoy, run along by the Strand of the Fly, or Southward of the Buoy upon the Plat.

Easter Booms-Gat.

The Eafler Boom-Gat is very much alter'd. The Scherr Ground, or Peter's Ground, is grown near the Strand of the Schelling: Before it lies a Sand, between Peters-Ground and the Shore; it is about half a Ship's length broad, and two Ships length long: it has 5 or 6 Foot Water, and between it and the Strand 7 to 8 Foot, but between it and the Strand 7 to 8 Foot, but between it and the Schorr 11 Foot to 2 Fa. Great Ships might eafily go in or out here, if a Buoy were laid on the Point of the Schorr to shew the Entrance; but there being no such Marks, 'tis dangerous. Coming from the E. and having Mid-Land Church upon the Schelling E.S.E. from you, then you are near this Sand.

Wester-Boom Gat or Channel.

To go into this Channel coming from the W. bring the Beacon of Brandaries on the W. end of the Island of Schelling, and the Tower there, both in one, E. and E. by S. from you, keep them so, and run by the outmost Buoy in 6 Fa. till you come to the second Buoy: Then bring the Tower a little to the Southward of the Beacon, and then you will run between a white and black Buoy, where is 17 Foot at low Water in the shoalest. From thence in 6 or 7 Fa. you are in the Fair Way of the Boom Channel; the N. side is the deepest, but the Channel is so broad and fair, that you may turn it up; and if it be calm, the Current will set you right in of it self.

To fail into the Jetting thro' the Robbogat near the Rosne Plat, you must run towards the Buoy of the Long Sand between the black and white Buoy, leaving the black on the Larboard, till you come to the Beacons on the Nakens; you will see plainly from Buoy to Buoy: then go out along by the said Beacons E.S.E. till Brandaries comes near to the Grind, tho not right with it: keep them there, and run on Southwards to the sirst Buoy on the Tail of Hendrick Jaerts Plat: then leaving them on the Larboard-side, run on S.S.E.

to the last Buoy, which lies on the South Point of the Plat.
Over against those Beacons on the Nakens lie two white Beacons on the S. Wall: The most Easterly is on the Tail or talling off; you may go by to the Southward. The Road where the Ships bound to Harlingen stop to lighten, lies between two black Buoys by the W. Coast.

N. B. All the Depths above-nam'd at Stortelmbeck and Booms-Gat, is at low Water; it is three Foot deeper at half Flood, for it flows there at a common Tide but 5 to 6 Foot.

Ameland Channel.

Anel and is an Island 2 Ls. to the Eastward of Schelling, lying E.N.E. and W.S.W. Upon the W. end of it is a Beacon, and a great Tower Steeple called Hoelm: The Roof of the Church is broken off, but the back Front has the Roof upon it, and appears above the Walls. To the Eastward of this Church is a Mill with a Houle, to the Westward of that also a square Tower: About the place where Midland Church stood, are 3 or 4 white low Sandhills slat on the top, and long towards the E. it is craggy Land with white among it. From the W. end runs off a Rist almost 3 Ls. into the Sea, called Born Rist; its very steep on the outside: you must not come nearer it than in 12 Fa. If you come from the Eastward you must not go within it, but in 7 Fa. you go close aboard it.

To go into Ameland from the Seaward, bring the Beacon on the E. end of Schelling right over the Steeple of Hoorn, bearing S S.W. from you westerly; go in so till the Beacon on Limeland, and the Steeple of Hoelm come one over the other:

Beacon and S Buoy, whic the Fair Wa Water. Beii to the North third Buoy w off from the white Buoys the other aga third about S white, leavi on the N. fic Lead. But first Quarter N.N.W. over third Buoy ii the faid Plat 4 very steep, a till the Steep where the Bo fide is flat,

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of Born Rift; run along to the Southward of it, keeping the Beacon and Steeple one over the other, till you pals the fecond Buoy, which lies thwart the W. end of Kamperfand. In the Fair Way between those two Buoys you have 5 to 6 Fa. Water. Being past the second Buoy, bring the Steeple a little to the Northward of the Buoy, and go on E.N.E. towards the third Buoy upon Gerritshonden, to avoid the Plat which lies off from the S. fide towards Born Rift, on which lies two white Buoys, the first against the faid third black Buoy, and the other against the fourth black Buoy, which lies from the third about S.E. Run thro' between the black Buoy and the white, leaving all the black on your Larboard fide: the Plat on the N. fide is indifferent flat, you may run by it upon the Lead. But be careful in flufting your Tides, especially the first Quarter Ebb, which runs very strong in the Channel N.N.W. over Born Rift into the Sea. Between the fecond and third Buoy in the Fair Way is 8 to 9 Fa. between the third and the faid Plat 7 Fa. Being past the fourth Buoy, both sides are very steep, and the Fair Way is 8 to 12 Fa. go in then S.S.E. till the Steeple of Hoelm come over the S. Point of Ameland. where the Boats lie; and then you are in the Bight. The S. fide is flat, and good anchoring in 5 to 6 Fa. the N. fide is

To fail farther into *Horsen*, go away from the Bight E.N.E. along by the S. fide in 5 to 6 Fa. till *Heynoom*'s Chamber, which is a red tiled House, come a little to the N. Eastward of *Hochm* Church: then you are on good Ground, well shelter'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 steep.

N. B. All these Depths, as also of the Fly, are to be understood of Low Water.

Of the Setts of the Tides.

At Amsterdam a N.E. and S.W. Moon makes full Sea.
At Hoorn, Enchuss in and Trk, a N. and S. Moon.
Between Cripple Sand and Cryel, a N. by W. and S. by E.
Moon.
Lines the Erres and Wievenger Elst. N.W. and S. E.

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 Eastward, thwart over the Ground, almost till half Flood, before it sets into the Booms Gat.

On the contrary, the Ebb falls to the Westward, thwart over the Grounds, till almost half Ebb, before it sets right out at the Channel.

The last Quarter Flood turns about with the first Quarter Ebb, and sets along Flyland out of the Stortelmeck; but the first Quarter Flood runs right in there.

Of the Soundings about these Places, and in what Depth the Land may be seen.

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Ameland is an Island 2 Ls. to the Eastward of Schelling, lying E.N.E. and W.S.W. Upon the W. end of it is a Beacon, and a great Tower Steeple called Hoelm: The Roof of the Church is broken off, but the back Front has the Roof upon it, and appears above the Walls. To the Eastward of this Church is a Mill with a House, to the Westward of that also a square Tower: About the place where Midland Church stood, are 3 or 4 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 Rift almost 3 Ls. into the Sca, called Born Rift; 'tis very fleep on the outfide; you must not come nearer it than in 12 Fa. If you come from the Eastward you must not go within it, but in 7 Fa. you go close aboard it.

To go into Ameland from the Seaward, bring the Beacon on the E. end of Schelling right over the Steeple of Hourn, bearing S.S.W. from you westerly; go in so till the Beacon on simeland, and the Steeple of Hoelm come one over the other: then leaving the first Mark, fail in upon the second, and you will fall with the utmost Buoy, lying within the outmost Point

of Born Rift.

Coming from the Westward, run along by the Strand of Schelling in 5 to 5 1 Fa. at low Water, and you will go right with the outmost Buoy; and then the Church and Steeple on Ameland will come one over the other, bearing E. foutherly.

Coming along by Schelling in 4 Pa. you will avoid Koggedreps Ground. Over-against it lies the first Buoy on the S. side

Sailing Directions for the Coasts of Germany, from the Channel of Ameland,



AST of Ameland a little Northerly, lies the Island E of Schieremoncoo, distance 3 Ls. it is a small low Land thretching E. and W. about 2 Ls. there are two Beacons placed on the W. end of it, where there is also a white Sand-hill. There are other Sand-

hills, but they are rather blackish or grey Hummocks. Island is highest at the E. end, where also the Shore is flat and

fandy, with fome finall 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 Channel, you must leave them all on the Starboard side, keeping to the Eastward of them; and when you are in the Channel, you will fee other Beacons on the W Shore, guiding to Ollmer boam, where is good anchoring. The Entrance and Channel here shift often, so that you will do well always to take a Pilot.

East from Schieremoncoo, distance 4 Ls. is the Island of Rottum, and between them a small Island called the Bosels: 'tis a

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Of the Soundings about these Places, and in what Depth the Land may be feen.

The Islands of Flyland, Schelling and Texel, may be seen in 15 to 16 Pa. Water off of Schelling; the Ground is white

Peter's Sand and Born Rift are very steep on the off side; it is 12 to 13 Fa. close by them: Ameland may be seen in 12 Fa. but cannot be seen in 15 to 16 Fa. as the Texel may, because the Depth of 12 to 13 Fa. runs far off into the

Germany, from the Entrance into the Zuyder-Sea, by of Ameland, to the Ryder.

ies the Island s a fmall low here are two here there is other Sandaocks. The re is flat and

Beacons into the Channel within in the rd fide, keepu are in the ore, guiding Entrance and Il always to

fland of Rot-*Bofels:* 'tis a

flat Strand, and at the Spring-Tides is often under Water, yet 'tis but just cover'd. There is a small Creek runs in between this Island and Schieremoneoo, but 'tis of no Depth fo much as for finall Vessels. There is likewise a Channel on the E. side of the Bosel, but 'tis sometimes deep, sometimes shoal; so that the shifting and uncertainty of the Ground renders it uscless.

Rottum has high and steep Land about the W. End; the rest is flat, with some little Sand-hills; it stretches out W. by S. and E. by N. about a League and a half in length. two Beacons near the E. end, but no Light house, as was in-There are only two Houses on it, one at the E. end, and one in a finall hollow Ground in the middle. There are very few Inhabitants, because with a N.W. Wind sometimes they would be in danger of being over-flow'd by the Sea.

N.E. by E. from Rottum lies Borkum, distance about 2 Ls. the W. Channel of the Ems lying between, which is the fairest Channel, and the clearest of Dangers on all this Coast. This Island shews off at Sea, as if it was three or four Islands, especially from the West, because at Spring-Tides the Sea over-

flows it, and divides it into three parts. There is a Sand shooting out a great way into the Sea from the W. side of the Island, called *Borcum Riss*: it is broader next the Island than at the W. end, where it is slat and very narrow. Keep the Beacons upon *Rottum*, bearing S.E. and you will run over the Tail of the *Riss*: it has 2 ± 7 Fa. at low Water; it shoots with a Breast inward, and is very steep on the side.

Keeping the fame Beacons in the fame Bearings, you go directly into the Channel of the *Embs* to the first Buoy: then you will see the Tower of *Boreum* E. Southerly, and the West end of *Rottum* S.E. by S. The said first Buoy is white, with a Flag on it, that it may be more visible: It lies on the Tail of

the Gelt Sacks Plat, and has 6 Fa. at low Water.

Hence to the next Buoy up the *Embs* the Course is S.E. by S. This is a black Buoy, and lies in 7 Fa. Water: Keep this Buoy on your Starboard, and the white on the Larboard-side sailing up. Being up with the second Buoy, *Borcum* Tower bearing E. and *Rottum* Beacons S.E. by E. then the Course to all the four Buoys is E by S. Coming in thus from the W. when you are near the *Lanwers*, keep along there in 5 Fa and then go on due E. that Course carries you clear of the *Geltsacks Plat*, in 3 to 8 Fa. till you come to the fourth black Buoy, where you have 4 Fa.

From this fourth Buoy to another which lies in the Turning of Rottum, the Course is E.S.E. From thence to the fixth Buoy, and to the Huybert's Buoy, the Course is E. by S. All those Buoys lie in 6 to 7 Fa. a clear spacious Channel; and in

the Fair Way it is 12 to 14 Fa. Water.

From the outmost to the innermost Huybert's Buoy, the Course is E.S.E. These Buoys he in 6 Fa. From this last Buoy to Steven Jans's Buoy, the Course is S.E. As you pass this Buoy, there is a small Tail of a Sand called Miewen's Tail, which shoots from the Wolds at the S. end of Borcum. Leave Borcum a little on your Larboard side, and you run by it in 5 Fa at low Water, so that there is no Danger.

W. from Steven Jans's Buoy are 5 Beacons; and S. of them lies a Channel called the Watt, which goes in S. byW. There you meet with a Riff called the Ranfel: Keep the Tower of Boreum on theW. of two little rifing Grounds at the S. end of Boreum, called the Wolds; and you go by the Watt Channel clear of the Ranfel, where you have 8 to 9 Fa. Water.

The next is *Doeck* Buoy, the Courie S E. and Southward of it is *Ruyte* Beacon: the Flood fets very strong into *Doeckgat* behind this Buoy, and you must take care of the Indrast.

From hence the Course is S.S. E. to Camper Buoy, and thence S.E. to Emshorn Buoy: they both lie in 5 Fa. but you have 7 to 8 Fa. in the Fair Way. Bring the Closterdam Church in one with Hoswick, bearing from you S.W. then you are a-breast of the Emshorn Buoy: from thence on the S.W. Shore you have 5 Beacons. Go away S.S. W. by them all to the Groningers Dyke, and bring the Church of Wyrde and the Closterdam in one, near the Shore of Delst Zyl. Thus you go clear of two Sands called the Hont and Pape, which lie on the E. side of the Channel; or you may keep close to the E. Shore in

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High Horn, which is a good Road for a S.W. Wind in 5 to 7 Fa. From hence you must take the Flood to go up; then steer to the Northward a little, to avoid the Tail of the Ere-wers Plat.

From the fecond Buoy, the Juyster Riss, which was so steep before, is flat, with good Shoalings; you may run along by it in 5 to 6 Fa. Being a little to the Eastward of the second Buoy, the third Buoy bears S.E. and there the Channel is broadest.

There is a Flat on the S. fide of this Channel, called the King's Plat: steering from the E. end of Boreum S.E. you run directly on it; but bring the Buoy and Beacon which stand on the Tail of it, on the Starboard side, and you go clear. There are longer Marks, but this is sufficient.

From this Buoy on the King's Plut to the Buoy at West Balgh, the Course is S.E. till two Beacons on the Strand come in one, the Buoy bearing S.S.W. from you. Then to a second Buoy at West Balgh the Course is S.W. and by the same Mark, keeping on, you will run quite thro' the Balgh, and so come fair out into the great Channel of the Wester Embs; only remember, near the upper end keep S.W. half West.

In the way of this Courle, between the Beacon called the Hoogh Horn, and the Buoy on the King's Plat, on the E. fide of the Channel, is a very good Road, called the Momer Balgh, for small Ships, bound either in or out. You go in N.E. and then steer N. to the anchoring Place; there is 4 Fa. Water in the Road, and good Ground.

There are two more finall Roads, one within the Balgh by the Hoogh Horn, which lies or goes in due S. and the other at the end of Juysh Rish, between two Points, where is 3 \frac{1}{2} Fa. and good Riding. East from this Island of Juysh, and all along at a like distance from the Shore, lie a continued Range of Islands, with Sands and Flats about them innumerable; also with small Channels between them; most of which Channels being uncertain by reason of the often shifting of the Sands, are of small importance to Navigation: Norare they so noticed by the Governments to which they belong, as to have any Buoys or Beacons plac'd upon them.

These Islands are, (1.) The Buys, the smallest Island on the whole Coast, distance from Juyst 1 League. The Channel between this and the Juyst is call'd the Buys Deep; it was formerly set with Buoys by the Council of Embden, but the Channel shifted so often, and was of so little importance, that they are taken away: The Island is known by two Hummocks, the highest is to the E.

2. Norderny, E. from Buys, distance † a L. and 5 Miles in length: The Channel between is call'd Norder Deep: The Island is known by a white Sand-hill near the E. end, and a square Tower on the W. end.

3. Baltrum, E. from Norderny, distance 1 L. and 6 Miles long. Between this and Norderny goes in a narrow uncertain Gut call'd Wichtery; fometimes it has 2 Fa. sometimes not one, and sometimes almost choak'd up. There is no Mark to know the Island by, but some low Sand-hills at the W. end, and one high one at the E. end.

W. from teven fant's Buoy are 5 Beacons; and S. of them hes a Channel called the Watt, which goes in S. by W. There you meet with a Riff called the Ranfel: Keep the Tower of Boreum on the W. of two little rifing Grounds at the S. end of Boreum, called the Wolds; and you go by the Watt Channel clear of the Ranfel, where you have 8 to 9 Fa. Water.

The next is Deeck Buoy, the Courle S É, and Southward of it is Ruyte Beacon: the Flood fets very strong into Deeckgat behind this Buoy, and you must take care of the Indrast.

From hence the Courle is S.S.E. to Camper Buoy, and thence S.E. to Emflory Buoy: they both lie in 5 Fa, but you have 7 to 8 Fa. in the Fair Way. Bring the Cloffordam Church in one with Holanck, bearing from you S.W. then you are a-breaft of the Englison Buoy: from thence on the S.W. Shore you have 5 Beacons Go away S.S W by them all to the Gronin. gers Dyke, and bring the Church of Wyrde and the Clofterdam in one, near the Shore of Delft Zvl. Thus you go clear of two Sands called the Hont and Pape, which he on the E. fide of the Channel; or you may keep close to the E. Shore in 6 Fa. within those Sands: But the W. Shore is much the best. and carries you directly within the Hont and the Pape: Keep therefore by the Beacons on the W. Shore, and you come to Otterdam. In this Course you pass by the Country of Groningen; 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 take a Pilot to the City of Embden, which lies on the E. Shore of the River, and where you have very

good Riding.

N. B. As you fail up the West Embs, you leave all the Buoys on the Starboard fide, except the white Buoy with the Flag upon it.

N. B. The Tide flows before the Town of Emden S.

and S. by W. and N. and N. by E.

E.N.E from Boreum, distant one League and a half, is a little low Island called Jussi it is higher at both ends than in the middle: the Church has a Spire at the East end of it, but cannot be seen, but when you are thwart of a low Valley in the middle of the Island. Between this Island and Boreum goes in the Channel called the Easter Embs to the southward of a certain Riff, which runs out from the W. end of the Island, and shoots out 2 Ls and a half into the Sea due West.

To go into this Channel, you must bring the Tower of Borcum with a new Beacon, (fet up a few years since on purpose to direct this Course) due S. and having first come over Borcum Flat or Ground in 5 La as before, then you are abreast of the first Buoy of this Channel in 5 Fa. Thence the Course is E. by N to the second, and E.S.B. to the third. The Buoys lie

in 5 Fa. and you have 5 to 10 Fa. in the Fair Way.

Between the first and second Buoys the side of Juyster Riss is so exceeding steep and rising, that there is no founding it; but farther up 'tis statter, and the third Buoy lies on the Tail of the Brewers Plat on the East end of Boreum. From the third Euoy the Course is E.S.E. to the Hoogh Horn, or

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4. Langerough, E. from Baltrum, distance 1 L. 9 Miles in length: It has a fair Strand on the N. fide, and fome Sandhills flat a top, at distance from one another, all along from the W. end to the middle of it. Between these two Islands goes in a Channel call'd Actumy; it has some Buoys on it, but tis not to be trufted, for the Channel shifts so often, that 'tis of no use but to the Fishermen, who run thro' every day, and know it well.

5. Spikerough, E. from Langerough 1 Mile, and about 3 Miles long; there was formerly another little Island close to it, call'd Luttick, or little Spikerough, but 'tis wash'd away by the Sea.

There is nothing worth notice on this Island

6. Wrangrough, E. from Spikerough 5 Miles, and 3 Miles in length: There are small Channels between thele, as the Oxbalgh and the Harrel, but like all the rest uncertain and shift-

ing, fo of no use for Ships of Burden.

Off from this Island opens the Channel of the Wester, divided into two by a large Sand call'd the Red Sand, stretching from E.S.E. to W.N.W. 3 long Ls Ships coasting from the W. take in Pilots from the Wrangroogh, or from the Shore. Ships coming from the N. take them at Helygeland or Holy Island, as they do also for the Elbe.

Having thus brought you to the Mouth of the H'efer, and deliver'd you fafe into the Hands of the skilful Pilots to carry you up to Bremen, I go on with Ships bound into the Elbe

or Elve for Hamburgh, or other Places in that River.

To the castward of the Weser lie the South Grounds of the Elbe: These are certain large Flats or Sands, lying of W. from the Land, between the Rivers Elbe and Wefer, therehing into the Sea 4 or 5 Ls. and more There are two deep Baight or Creeks in thefe Flats, call'd the Tills, that is, the Hegican and the Eaftern Till.

As you go from the Wefer eastward, if you are driven toward the South Ground you may run along by it in 4 to 6 Fa. but not nearer, the Sand being steep. When, going on thus, you come to

to 8 to 12 Fa. foft Ground, you are then certainly thwart the Wester Till, and may run into it for Shelter; 'tis a good Road, and safe for all Winds lying so between the Sands: You may steer in E.S.E. by the N. Shore of it, which is all clear and

deep, and has 12 to 13 Fa. Water.

The Easter Till lies N.E. from the Entrance to the Wester Till, it lies between the Sands like the other, and has good Depth and Shelter from any Winds—You go in E.S.E. More N.E. and still running by the Soundings of the South Grounds, is the Hound Balgh, where lies a Steep, with a Buoy on it call'd the Scherborn. Here also Ships run in for Harbour between the Sands.

Sailing Directions for Helighland, or Holy

OLY Island lies due N. from the outmost Buoy of the Weser, distance 8 ½ Ls. and from the Born Riss; between the Schelling and Ameland N.E. by E. and S.W. by W. distance 32 Ls.

When first you make the Island from the W. it shews a high reddish Point and slat on the Top: You may run boldly up to it, and anchor close under the Scholvers Point, which is on the S.E. side, in 5 to 9 Fa. When you are near the S. Point, you will see the Monk, a Rock which appears high above Water, almost as high as the Island; and a Mile S.S.E. from the Monk is a sunk Rock which is dangerous; keep in 8 to 9 Fa. Water, and you are clear without it. When the Island hides the Monk, then you are thwart it; and when the Monk is seen without the Land, you are in the best of the Road, and have to 11 Fa. good clean Ground, shelter'd from W.S.W. Winds, also from N.W. and northerly Winds, but open to the E. and S.E.

There is a long Riff runs out from the N. fide of the Island almost a League into the Sea; so that you must come no nearer that fide than 9 to 10 Fa. When you are on that fide, and the Island 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 small Riff, but there is three Fathom over it, so that you have no danger on that side, except that in the Road there are several lost Anchors and Wrecks of lost Ships lying under Water: There is a Haven for small Ships also, call'd the South Haven, which lies within the Bank which runs from the S. end of Scholvers Point.

This Island equally regards the Weser, the Elbe, and the Eyder or Hever; and here are Pilots always ready for all those Rivers, and most of the Ships bound up those Streams call here for them.

The Eyder lies N. from the Elbe, distance 6 Ls. The Land or Coast of Ditmarsh or Holstein between the two Europe, is full of Shoals and Elats lying for out, which rendeces

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Sailing on the Coasts of Germany.

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Here begins the Mouth or Channel of the Elbe; and this is call'd the outmost Buoy of the Elbe. The Road of Holy Island and this Buoy lie S.E. by S. and N.W. by N. distance 8 Ls. As these Sands are call'd the South Grounds, because they lie on the S. side of the Channel of the Elbe; so on the N. side lie other large Sands, stretching also far into the Sea, and these are call'd the North Grounds. The S. end of these Sands is call'd the Voyel Sand, which runs with a long narrow Tail from the outmost Buoy of the Elbe W. by N. into the Sea almost 3 Ls. and from the Land on the N. side of the Elbe near 6 Ls. But you may run over the Tail of this Voyel Sand in 5 Fa. at low Water, any where without the outmost Buoy of the Elbe, as above.

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From Holy Land to the Small Deep the Course is N.E. by N till Pielworm bears E. by S. and the S. end of Ameren N. Then go on sounding, and you will not miss the Passage. You may take Pilots also at the Isle of Ameren, or Pielworm, for all this Coast, which is all so full of Deeps and Flots, that it would take a Volume to describe them; and after it was done, no Mariner would venture among them without skilful Pilots, who are always to be had upon easy Terms.

N.N.E. from Ameren is the Island of Silt, distance near 3 Ls. and is 4 Ls. in length: And in the same Point from Silt is the Island Rem. Between these three lie several Deeps or Channels, which run in for Butfloot, Tonderen, and other Places on that Coast, among abundance of Flats and Sands; at all which Islands, upon making Signals, you may have Pilots to carry you in. On the SE. Shore of the Silt lies the Harbour of Lift; 'tis N. from the Silter Deep, diftance 8 Ls. you run in by the N. end of the Island; the Mark is a little Island without the Point, which you will see in 6 to 7 Fa. and lies between the Silt and the Rem a little to the callward: on which Island is a House call'd Jeurtmans-house, which bring a little without the Point of Lift. 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 Vucht-house, in 9 to 10 Fa. leaving a Sand call'd Haef Sand on the Larboardfide. If you come from the northward, edge from the Shore till the Red Cliff comes without the Sand-hills; then you may go over the Sand with Ships of small Draft.

Here you may take Pilots for Tonderen, or Husum, or any of the Places on the Coast of Juitland; so there is no Occa-

fion for farther Directions.

The Island Rem is 3 Ls. in length, a very flat low Shore, so that you can hardly see it in 7 Fa. the Channel of Liss lies between them.

West of the Island Silt is a long Bank of Sand, stretching 2 Ls. in length: You have 13 Fa. Water in the Passage between it and the Island, the Holy Island bearing the Sand

Illand almost a League into the Sea; to that you must come no nearer that side than 9 to 10 Fa. When you are on that side, and the Island 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 small Riss, but there is three Fathom over it, so that you have no danger on that side, except that in the Road there are several lost Anchors and Wrecks of lost Ships lying under Water: There is a Haven for finall Ships also, call'd the South Haven, which lies within the Bank which runs from the S. end of Scholvers Point.

This Island equally regards the Weser, the Elbe, and the Eyder or Hever; and here are Pilots always ready for all those Rivers, and most of the Ships bound up those Streams call here for them.

The Eyder lies N. from the Elbe, distance 6 Ls. Land or Coast of Ditmarsh or Holstein between the two Rivers, is full of Shoals and Flats lying far out, which renders the Entrance very difficult., This was the Reason why in the late Siege of Tonningen on the Eyder, some English Ships hired by the Duke of Holstein's Agents to carry Provisions for the Relief of that Place, were lost in the Mouth of the Eyder; the Danes having caused the Buoys to be removed, and forbidden the Pilots at Holy Island to serve them on pain of

On the N beyond the Eyder, being the W. Shore of the Land of Eyder Stee, is a broad Sand call'd the New Ground; and on the S Shore within the Eyder a long Sand call'd the New Ground Breering. All the Mouth of the River is also full of Shoals, fuch as the Blavoort, the Hound, the Iron Henrick, the Heck Sand, and several others. Every where the Buoys and Beacons are placed for Directions, and the Pilots as above are thorowly acquainted with them.

Due N. from the Mouth of the Elbe, and also of the Eyder, goes in the Hever, distance from the steep Buoy on the Schorton in the Elbe 10 Ls. and from the Tail of the Hound in the Eyder 5 Ls. The Course to this Entrance from the Helighland is NE. easterly, till you come into 6 or 7 Fa. bringing the Spire Steeple of Pickworm to bear N.E. by N. and to the S fouthward of the fouthmost House on the Isle of Nubol.

To fail into the Hever is so difficult, that notwithstanding all possible Directions the Ships bound up to Husum take Pilots either at Helighland as before, or at the Islands Pielworm or Nubol: The Entrance. Ifay, is difficult; but when you are past the Sands, and gotten into the Fair way, the Channel is clear and deep up to Husum-bridge, and you may anchor where you pleafe.

North from the Hever is the Island of Ameren, and the Passages call'd the Deeps, distinguish'd by the Small Deep, the Red Deep, the Silter Deep, and the New Deep; these are Channels all leading into the Bays on the Coast of Juithand within the Vooren.

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tween it and the Island, the Holy Island bearing due S.

From the Channel of List to the Channel of Rypen, call'd Rypen Deep, the Course is N. by E. distance 7 Ls. From Holy Land the Course is N. westerly. This Channel is very dangerous in soul Weather, the Coast being slat far off to Sea: Make Signals therefore to the Island Mann for Pilots, who will come readily off, and you may ride within the Gore Sand till they come to you. Here the Rypen Ships outward-bound ride for a Wind, as others do at the Texel or the Downs: There is good riding also within the Island Mann in 6 to 7 Fa.

N. B. You cannot go up to Rypen at all with great Ships.

North of Mann, the Rypen Deep being between, is the Island Phann, in length almost 4 Ls. N.N.W. and S.S.E. North from that lies a Shoal call'd Wisdike, and still N. a Hill call'd Luysberg. Between these goes in the Grawe Deep, which goes in to Hartingen, and higher to Woerd, 9 Ls. beyond Hartingen within the Land: But for this River, which is both narrow and crooked, you have Pilots at Phanu.

From Phanu to Schelling-kroeg the Course is N.W. distance 4 Ls. Between is Souther-Zyt, a small Creek, having 1 ; Fa. Water. Schelling-kroeg is a good Road for all Winds, as also is Kingsborough in the Kettle. If you come from the northward, and are bound into any of these difficult Creeks, you may run into this Kroeg, and ride for a Wind; it is so wide, you may turn in if the Winds are against you. It slows not

above 6 Foot in any of these Parts.

N.P. The farther northward on this Coast, the less Tide; what Tide there is, slows S.S.W. and N.N.E.

Between the Souther-Zyt and Wester-Zyt lies a Point call'd the Horn: The Coast to the southward of it lies E.S.E. towards the Grawe Deep, and to the northward of the Horn the Coast

Directions for Sailing on the Coasts of C

Coast lies N. and S. towards the Wester-Zyt. From this Point runs out a long narrow Bank call'd the Reef Horn, or the Horn Riss. Some call it the Devil's Horn; 'tis indeed in the Shape of a Horn, and runs sharp out into the Sea 7 to 8 Ls. in length, till it comes to a Point: 'Tis generally 2½ to 3 Fa. but near the Land 'tis 3½ Fa. deep. It is a dangerous Shoal, because it is so steep, that at one Cast of the Lead you shall have 22 Fa. at the next 15, and at the next 3 Fa. and then you are upon it.

North of this Horn Riff is another Shoal or Riff call'd the Owl; it begins at the Shore, and runs off parallel with the Horn, and very steep also: If you are on the N. of it, come no nearer than 7 Fa. The Owl narrows at both ends, as the Horn does at the W. end: There is a good Channel between

the Owl and the Reef Horn.

Some Navigators intimate that the Great Dogger Bank begins from this Reef Horn, because when they sail early in the Morning out of Kincopper Deep, and run S.W. tho they have the Wind hard at N.E. yet till four in the Afternoon they shall have but 9 Fa. Water; by which they say the joining of the two Banks is demonstrated.

North of the *Horn Point*, distance 4 Ls. lies a high Hill call'd *Blawen Balgh* or Creek, which looks black and steep. To the northward of *Blawenberg* are several white Sandhills: All along to the Haven of *Numet* the Land is a smooth

fair Strand for 7 Ls. together.

From Kincopper Deep, or the Haven of Numet, which is the same, to Bovenberghen, the Course is due N. distance 10 Ls. the Coast is all a clear Strand with small white Sandhills. All along this Coast you see the blue double Hills call'd the Holmes within Land a great way. There are several Banks out at Sea in this Course, but they have all 7 to 9 Fa. some deeper.

At Bovenberghen is a smooth long Hill, and on the middle a Church on a rifing Ground, with a square Tower: When you are thwart it, the Land appears in three; the middlemost with the Church is the highest. The Land here may be seen in 13 to 14 Fa. off at Sea. Gross red Sand, with small Stones.

N.N.E. from Bovenberghen lie the Holmes, distance 10 Ls. a high Point of Land steep down on the N.E. side, having a Church upon the highest part of it. About 5 Ls. from the Shore is a Bank with 9 to 10 Fa. but its but narrow: The Land shews at a distance with Hummocks, and several Steeples,

all iquare flat Towers, no Spire:

Between these two the great Juitish Riff spreads it self, and runs out W. into the Sea: it lies deep in the Water like the Broad Fourteens, having 12 to 13 Fa. Water on it: it bears from the Naze of Norway S.E. by S. distant 24 Ls. On the N. side of it is a gruff Sand, and on the S. small peble Stones. W.N.W. from the Shore you have 16 Fa. at 8 Ls. distance, and at 10 Ls. 20 Fa. the same Ground as before; and S.W. by W. the like distance in 25 Fa. black and red Sand.

N.E. easterly from the Land, distance 1? L. between the Holms and the East-head, distant from the latter 2 Ls. lies a stony Bank very dangerous, and where several Ships have been cast away; it has but a Ba at half Tide; and from the

There is a Light Point of the Schar Light-house and th Schaw Riff, which a League into the Se ward, you must co of the Schaw being the Coast from the within the Sounding Wind be S.W. you the Light on the you are on the N. contrary, you are o half way between, y anchor very fafely o is a fmall Channel b Water.

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From the Entrance 19 Ls. the Course Anout, like Helygel Point of Passage for of Jutland, to Lu the Coast of Norw Fair Way to them may be taken, acco fide of the Isle of A the whole Coast in cult, that no Strang Pilots; whom you Juitland, and the as far as Lubeck. 7 ber of finall Islands nuchuled by arest the Coasts of Germany.

There is a Light-house or Fire Beacon upon the Eastermost Point of the Schaw: Bring the Church S.W. by W. and the Light-house and the Steeple in one; then you are thwart the Schaw Riff, which is a Sand running E.N.E. from the Schace a League into the Sea. If you are bound about from the Southward, you must come no nearer than 12 or 14 Fa. the S. side of the Schaw being very steep; and if you are bound along the Coast 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 go about the Riff in that Depth. Bring the Light on the E. fide of the Houses of the Schaw, then you are on the N.W. side of the Schar Riff; and so 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. You may anchor very fafely on either fide the Riff in 7 to 8 Fa. and there is a small Channel between the Riff and the Shore, with 2 + Fa. Water.

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 Bottom being rocky. As you go about the Schaw from the Westward, you must observe that the Tide coming out of the Belt sets so hard towards the Coast of Norway, that it will carry you away unawares, especially if the Winds have been E. or N.E. for any time. May 22. 1605. a Ship being becalm'd off of the Schaw Riff, (as several Pilot Books assirm) was carry'd by the Violence of the Current N E. to the Coast of Norway in 8 hours: 'Tis true, this is not often.

Being about the Schaw, and bound for the Belt, leave the finall Holms on the Starboard, being 4 Ls. from the Schaw, and go on S.W. till thwart Zeabny. The Holms are small Islands; you may fail between them and the Main to Zeabny in 3 Fa. but between the Holms and the N. end of Leson is 10 Fa. dist. 4 Ls. The Grounds are all uneven between Zebny and Leson, and to the Southward of the first: Great Vessels should not come near the Land on any of those places; but in case of

Necessity you may run thro' between the Holms.

S. by W. from Zeabuy lies Aleburger, distant 9 Ls. the Town lies 4 Ls. up the River; and as Pilots are always ready

to carry Ships up, I need not describe the Port.

From the Entrance into Aleburger to the Island of Hasselin, is 19 Ls. the Course is S.E. by E. This Island, or the Island of Anout, like Helygeland, to the Elbe, Wefer and Eyder, is in the Point of Passage for the Great Belt, the Little Belt, the Coast of Jutland, to Lubeck, the Coast of Sweden, to Falsterborn, the Coast of Norway, or the Sound, being as it were in the Fair Way to them all: and therefore at either of these Pilots may be taken, according as your Course is directed. The N. fide of the Isle of Haffelin is very foul, and dangerous; and the whole Coast in the Belt, and among the Islands is to difficult, that no Stranger should offer to put in any where without Pilots; whom you take at Haffelin for all the East Coast of fuitland, and the Passages of the Greater and Lesser Belt, as far as Lubeck. There are in the way an innumerable Number of finall Islands and Rocks, Deeps and Creeks, but not much wied by orest Shine the they

the Church is the highest. The Land here may be seen in 13 to 14 Fa. off at Sea. Gross red Sand, with small Stones.

N.N.E. from Bovenberghen lie the Holmes, distance 10 Ls. a high Point of Land steep down on the N.E. side, having a Church upon the highest part of it. About 5 Ls. from the Shore is a Bank with o to 10 Fa. but 'ris but narrow: The Land shews at a distance with Hummocks, and several Steeples. all square flat Towers, no Spire:

Between these two the great Juitish Riff spreads it self, and runs out W. into the Sca: it lies deep in the Water like the Broad Fourteens, having 12 to 13 Fa. Water on it: it bears from the Naze of Norway S.E. by S. distant 24 Ls. On the N. fide of it is a gruff Sand, and on the S. small peble Stones. W.N.W. from the Shore you have 16 Fa. at 8 Ls. distance, and at 10 Ls. 20 Fa. the same Ground as before; and S.W. by W.

the like diffance in 25 Fa. black and red Sand.

N.E. easterly from the Land, distance 1 ? L. between the Holms and the East-head, distant from the latter 2 Ls. lies a stony Bank very dangerous, and where feveral Ships have been cast away; it has but 2 Ha. at half Tide; and from the Easthead, which lies to the eastward of the Holms a Ls. runs a Riff right out into the Sca near 1 Leag. there is 7 Fa. near it: and N.E. from the Holms dist. 9 to 10 Ls. is Robkuyt: between these there is a Bay, in which you will see five Churches with fquare Towers, and double Land, looking blueish; they lie nearest to Robkuyt: the Shore is a flat clear Sand.

Robkuyt, or Robshote, is a high white Cliff, the Hill round. with a high Spire on it; and to the Eastward the Land falls in. making a deep Bay towards Harthals: The Shore is flat, and you have but 9 Fa. at 4 Ls. off, a Bank lying parallel with the Shore. The Course to Harthals is N.E. by E. distant 4 I.s. there is a square Steeple in the Midway, and double Land. viz. the high Lands of Lacctore over the high Land of Hart-

bals.

Thwart of Harthals is a stony Shoal about a Mile from the Shore, which has been fatal to feveral Ships. From hence to the Schaw the Course is E.N.E. distant 8 Ls. the Shore all full of Hummocks and Sand-hills; and the high Lands of Lae-

clow are feen all the way.

Within the Point of the Schaw is the Church of the old Schaw, or Schagen, having a square Tower: when the Tower bears S.S.E. you should edge a little from the Land, to avoid a little Sand which runs off Shore about half a Mile : all the rest is a bold Shore; from Harthals you have 4 to 5 Fa. as near as you pleafe.

Necessity you S. by W. f

Town lies 4 L to carry Ships From the E

10 + Ls. the C Anout, like H Point of Passa of Jutland, to the Coast of Fair Way to t may be taken, fide of the Ifle the whole Coa cult, that no S Pilots: whom fuitland, and as far as Lubed ber of finall If much used by

The Islands those smaller P but the pruder Roffness and Ca the Belt or the the Baltick Sea ons in its Orde

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not come near the Land on any of thole places; but in case of Necessity you may run thro' between the Holms.

S. by W. from Zeabny lies Aleburger, distant o Ls. the Town lies 4 Ls. up the River; and as Pilots are always ready

to carry Ships up. I need not describe the Port.

From the Entrance into Aleburger to the Island of Haffelin, is 10 + Ls. the Course is S.E. by E. This Island, or the Island of Anout, like Helygeland, to the Elbe, Wefer and Eyder, is in the Point of Passage for the Great Belt, the Little Belt, the Coast of Jutland, to Lubeck, the Coast of Sweden, to Falsterborn, the Coast of Norway, or the Sound, being as it were in the Fair Way to them all: and therefore at either of these Pilots may be taken, according as your Course is directed. side of the Isle of Hasselin is very foul, and dangerous; and the whole Coast in the Belt, and among the Islands is to difficult, that no Stranger should offer to put in any where without Pilots; whom you take at Haffelin for all the East Coast of Juitland, and the Passages of the Greater and Lesser Belt. as far as Lubeck. There are in the way an innumerable Number of small Islands and Rocks, Deeps and Creeks, but not much used by great Ships, tho they may pass that way too.

The Islands of Zealand, Funen and Laland, are also sull of those smaller Ports, as is the Coast of Slefwick and Holstein: but the prudent Mariner will take Pilots, either here or at Roffness and Callenberg, and so from place to place; till passing the Belt or the Sound, he opens with Lubeck, and comes into the Baltick Sea again, for which we shall give Sailing Directi-

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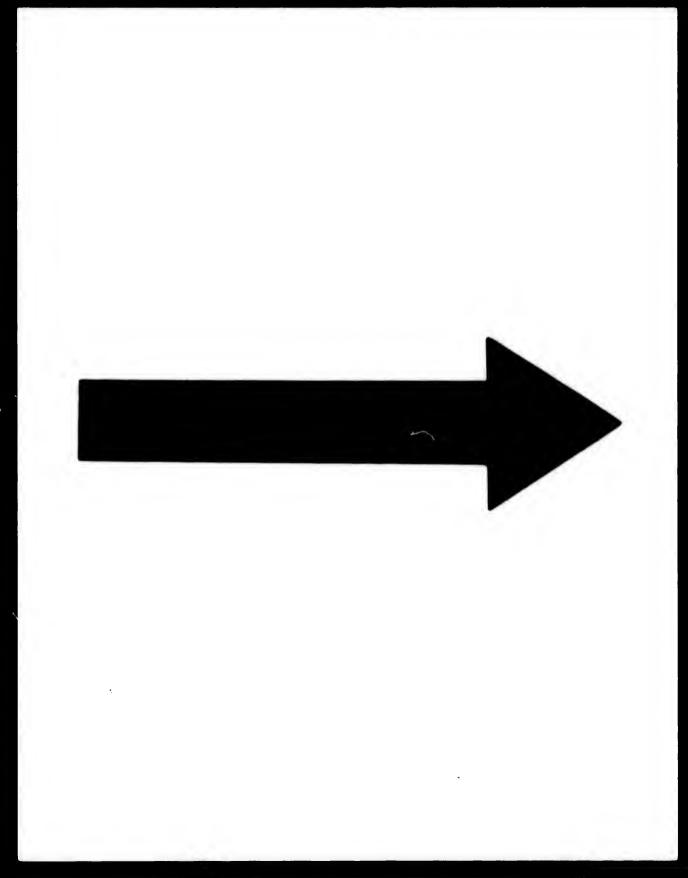
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the acar N. B. The several Countries bounding on these Passages. with the Islands mention'd above, make in general the Coast of Denmark, and the whole is usually called so: The Particulars are so many, they are not to be number'd or describ'd. 'Tis true, the Pilot-Books pretend to it; but as they scarce take notice of half the Places, and even those they do little more than name; and as no Ships of any value venture to pais here without Pilots, except those belonging to the Inhabitants and Coasters, who are always running among them with Corn and Provisions, and are as it were at home: on this account 'tis sufficient to say, that all Strangers bound among these Islands, or thro' those Passages, not being supposed to go without Pilots, the Places need not be farther described here.



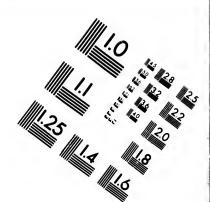
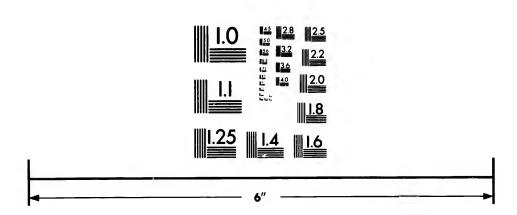


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Sailing Directions for so much of the Coast of Sweden as Account of Norway begins, to Gottenburgh, an Point.

Aelstrand, or Masterland, is an Island to the Southward of the Rocks called the Pater Nosters, mention'd in our Directions for Norway, distance 2 Ls. If you come from the Schaw, the Course is N.E. till you make the Hill Britto E.N.E. then run in with it, leaving the Pater Nosters on the Larboard side: then go away E. by N. and E.N.E. till you make Maelstrand, where you will see a large Stone Beacon, with a Mast and a Barrel, for Direction of Sailers: you may have a Pilot to carry you in, for there are two several Channels.

About 4 Ls. S. from hence is Calf Sound, and 4 Ls. S. of Calf Sound is the Island of Wingo. Take a Pilot for Calf Sound, for it is full of dangerous Rocks: and at Wingo you must take a Pilot for Gottenburgh one way, and for Bahus the

other way; for both the Channels go in by this Island.

Maclfound lies 3 Ls. to the fouthward of Wingo; it is a rough rocky Island, lying before the Harbour of Congsback. There is a good Road under the Island, and you may fail round it fafe enough; but if you would go into Congsback, take a Pilot here, for there are many Rocks, some above some under Water. The great Rock called the Nyding lies but one League from Maclfound, 'tis a foul and dangerous Place: The Rock is half a League long, with a Riff of sharp Stones lying from the N. end of it almost a League more N. and N.N.W. having but 4 to 8 Foot Water on it: The S. end is narrower, and has a Tail of Rocks running out S.E. near 2 Ls. with but 3 to 5 Foot Water: so that we may well say, 'tis a dangerous Place. There is a Light, or Fire-Beacon kept upon it, to warn Sailers of the Danger: yet there is good anchoring about 1 ! L. from it.

From hence to Wersbergen is 5 Ls. S.E. by S. in a Bay, and due S. Moustersound being on a River which runs into that Bay; and before the Bay lies an Island called Giddero. There are several little Towns in this River and Bay, where Vessels go in to load; but a Stranger should take a Pilot at Giddero.

South of this Bay lies Valkenberg River; on the N. Bank of it is an Island called Morustong, and S. of that another called Tuylow, distance 3 Ls. There is a high white Hill here called

Toung Kol, as the Koll. Efeveral small fled, distant sfled, also Bac. Anchoring.

In the mide to these place Island. The king the E. P

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from the Isle Course from Fair Way you and deeper to Depth. The is a Bank call by S. dist. 8 I which is the dist. 11 Ls. bed in its plan

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Directions for Sailing in or out of the Sound or East Steden Point, and Falsterb Sailing on the Coasts of Sweden.

A of Sweden as lies from Maelstrand, where the ottenburgh, and forward East to Falsterborn

Young Kol, and by some mistaken for the great Point colled ouththe Koll. Beyond this is a great Bay, in which there are men-2 Ls. E, till aving bv N.

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ction

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feveral fmall Ports and Rivers, where Ships load, as Holmefled, distant from Tuylaw 3 Ls. S. Laholm 2 Ls. from Holmefled, also Baalsted and Engelholm. At this last there is good Anchoring. In the middle of this Bay is the Island Swedero. To run in to these places, and within this Island, take a Pilot from this

Island. The Koll lies S.W. and S.W. by W. distant 3 Ls. ma-

This Point of the Koll is the great Mark by which Ships fleer

king the E. Point of the Bay.

S. of Calf from the Isle of Anout and the Schaw to the Sound. The o you Course from Anout to the Koll is S.S.E. distant 10 Ls. In the is the t is a sback. y fail , take ac un-

Fair Way you have 20 to 24 Fa. 'tis shoaler on the W. side, and deeper to the E. fo you know the Course by the Depth. There is but one dangerous place between, and that is a Bank called Lewis's Ground; it lies from Anout Riff' S.E. by S. dift. 8 Ls. and from the Koll W. by N. 5 Ls. Haffelin, which is the other Island in this Course, lies S.W. from Anout, dift. 11 Ls. and W. by S. from the Koll dift. 9 Ls. 'tis defcribed in its place. The Entrance into the Sound is between the Koll and the Coast of Zealand; the last is all clear, you may fail along by

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it either from Anout or Hasselin in 6 to 7 Fa. except a small Riff near Fishers Village, and there is 4 Fa. over that; and except Lapfund, which is a Riff that stretches off from Cron nburg Castle N.W. but keep in 7 to 8 Fa. and you go clear of it. But if you come from the Koll into the Sound, you are out of the fear of Lapfand: Then you must give a Birth to the Swedish Shore, to avoid a long Ledge of Rocks called the Swyn Boden, they lie 3 Ls. in length, and distant from the Shore 2 English Miles: The shoalest of them is just thwart of Hielmes Flat; bring IV cen Island open with the Castle of Elseneure, and you go clear both of the Swyn Boaen Rocks and the Lapfand too.

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If you are bound for Copenhagen, observe the following Directions, taken by an English Survey, and by Order of the English Admirals when in the Baltick with his Majesty's Fleet.

Sound or East Sea, from the Kol up as high as t, and Falsterborn Rist.

ween, half way between the finele. House and the End of the

bout 1 ; L. tom it.

From hence to Wersbergen is 5 Ls. S.E. by S. in a Bay, and due S. Mouster found being on a River which runs into that Bay; and before the Bay lies an Island called Giddero. There are feveral little Towns in this River and Bay, where Vessels go in to load; but a Stranger should take a Pilot at Giddero.

South of this Bay lies Valkenberg River; on the N. Bank of it is an Island called Mornftong, and S. of that another called Thylow, diffance 3 Ls. There is a high white Hill here called Swedish S Swyn Bou Shore 2 L Hielmes F Elseneure.

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Directions for Sailing in or out of the Sound or E Steden Point, and Falster

F you are bound from Elseneure into Copenhagen, you must keep the Lead going, giving the Main a Birth: When you come up as high as the N. end of the Middle, the Mark for going in is, the highest Steeple of the City, open a little to the eastward of the

great Church joining to Tycho Brahe's Tower, or in one with it, and it will then bear S.W. Or steer in with the northermost Wooden Fort, giving it a Birth when you come near it. you anchor in the Road, bring the northmost 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, there's a large white House, that stands near the End of a great Wood to the northward of Copenhagen, which appears as if it were in the Wood. As you fail up towards the Casper, bring the faid white House, or the swelling of the Wood-end, on the northmost 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 best of the Channel, as far as the Casper Buoy. When you are a breast of the S. end of the Middle, you'll have the two highest Steeples at Copenhagen in one, or but a very small distance open, and will then bear W. by N. three quarters N. and a Church which stands inland to the fouthward of Copenhagen Wood, a Sail's breadth open without, or to the northward of the northermost Wooden Fort: There's a Bank almost Mid-Channel W. half S. from the S. end of the Middle, on which there is but 17 or 18 Foot Water. If you are in a great Ship, you must keep to the eastward of it, for it is nearest the W. Shore; bring the said white House near the Wood, two Sails breadth to the westward of the northmost Wooden Fort, and the Spire of the Exchange, and a Windmill that stands 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 Course will carry you right on it. But in coming from Elfeneure and bound up, if you will fail thro' the outer Channel or Flemish Deep, you must keep the great Tree that stands at the N. end of the Town of Draco,

half way b Town, till and then fai as the Casp Southolme, it. When If ood) is i ter W. and II Foot W

7 Fathom. To know must bring Town, which leading Mar Draco Tree fteering S. a lics from T The Mark t Draco, wh Grounds in 26 or 27 Fo S.W. half S Buoy to th The Mark ! E. end of T Draco Il'ou which will when over

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Swedish Shore, to avoid a long Ledge of Rocks called the Swyn Boden, they lie 3 Ls. in length, and distant from the Shore 2 English Miles: The shoalest of them is just thwart of Hielmes Flat; bring Ween Island open with the Castle of Elseneure, and you go clear both of the Swyn Boden Rocks and the Lapsand too.

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If you are bound for Copenhagen, observe the following Directions, taken by an English Survey, and by Order of the English Admirals when in the Baltick with his Majesty's Fleet.

Sound or East Sea, from the Kol up as high as at, and Falsterborn Riss.

half way between the fingle House and the End of the bagen, Town, till you come up as high as the S. End of the Middle; Iain a and then fail by the former Marks, till you come up as high V. end as the Casper Buoy. You must have a very great Regard to highest Southolme, for there are feveral Hooks and Over-falls lying off dofthe it. When the Tree or Two Trees near Draco (not Draco ie with Wood) is in one with the House, and bears S.S.W. one quarermost ter W. and Southolme long Barn E. half N. you'll have but it. 11 Foot Water, and a Cable's length to the westward 6 or o bear 7 Fathom. r 8 Fa. bound

To know when you are a-breast of the Casper Buoy, you must bring Thornby Church open with the W. end of Castroup Town, which will then bear W. one quarter S. Then for a leading Mark to keep clear of the Casper Sand, you must bring Draco Tree open to the westward of the single House; and steering S. and S. by W. you go fairly to Draco Bnoy, which lies from Draco Town S. three quarters W. 2 or 3 Miles off. The Mark for that Buoy is the faid Tree over the W. end of Draco, which will then bear N. half W. Coming over the Grounds in the best of that Channel, you'll have at most but 26 or 27 Foot Water. From Draco Buoy to Steden Point is S.W. half S. distance 5 2 or 6 Leagues; and from the said Buoy to the Bank call'd Brack Ground S.E. 5 or 6 Miles. The Mark for the faid Bank is Copenhagen high Spire over the E. end of Draco Town, and the King's Country Honse on Draco Wood, or open with the W. end of the faid Wood, which will bear then N.W. by N. and the high Spire-Steeple when over Draco N.N.W. one quarter W. On this Bank there is but 10 or 11 Foot Water; it is a Mile long or more; Steden Point bears off it S.W. and Falfterborn Church S.S.E.

If you are passing the Sound, intending to go about Falsterborn towards the Baltick, come no nearer the Riss than 5 Fa. or 4 1; keep in these Soundings till you bring the two Churches at Falltenborn in one, bearing NE. from you; then you may bear away to the eastward, in 6 Fa. till you bring the Church on the Point N. or N. by W. from you:

Then

Directions for Sailing on the

Then you are quite past the Riff, and may borrow on the

Main as you pleafe.

If you are bound in to Landscroon, which lies against Ween Island, go in between the two Beacons, which stand upon two Points of Sand stretching off into the Sea on each side of Landscroon. Being come from the northward, and got about the Point that lies on the N. side of the Harbour, you will see a little Church on the N. side, close to the Sea, and a little farther into the Land a large Country Seat; bring them into one, and you go in right with the Point, and anchor in 3 Fa. under the Caffle.

If you are bound to Elboge or Malmoe, take your Course

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 \mathbf{T} her Rerborn Southol tholme :

Sailing Directions for the Coast of Mecklenburg, fr forward to the Ports of Dantzick and Konings on to Wybourgh on the Coast of Finland.



ROM Lubeck Bank to Wismar Deep the Course is N.E. by E. and E.N.E. distance 7 Ls. Wisimar Deep is a good Channel, and Water enough for Ships of any burden.

To fail into Wifmar, 'tis usual to take a Pilot at the Mouth of the Port; fo no Directions are wanting, other than this, that you make Signals for a Pilot before you enter the first Opening of the Sound or Deep.

From Wilmar to Gester Riss it is N.E. 12 Ls. From the Isle of Femeren to Wismar the Course is S.S.E. assance 7 Ls.

From Wifmar to Roflock the Course is E.N.E. distance 8 Ls.

Rofleck lies near S. from Gester Sand or Riff.

To the castward of Rostock there is a high Land call'd Robbenefs, and between them runs off a large Riff from the Land towards Gester Riss. The deepest Water between Robbeness Shoot and Gester Riss is 12 or 13 Fa. On that side next Gester Riff it is steep too, but on that side towards the Shore are good Soundings.

rom Rostock to the entrance into Straelfond call'd the e is 7 Ls. and to the western Point of the Island of Dorn-

bujn close to Rugen it is 1 L. more.

The westermost part of the lsle of Rugen is Dornbush Point. South of this Point goes in the Jette, distant 2 Ls. This is the Sound which goes up to Straelfond. The Land here is steep 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 equal depth. Bring the Church over the Point, and the Point N.N.E. and anchor where you pleafe.

This is one of the four Points of Rugen; the other three are Whitmond, Jasmond, and Peert. If you would go in for Straelsend, or thro' the Jette, take a Pilot at this Point. From hence to Bornholme is 18 Ls. E.N.E. and to Falsterborn 14 Ls. N.N.W.

Whitmoud is 4 Ls. N.N.E. from Dornbush; Jasimond 3 Ls. E.S.E. from Whitmoud, and Peert 4 to 5 Ls. S.S.W. from Jasimond: If you would go into any of these Roads for Shelter,

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E. by Ls. a fa Deep ar the San Ice; by ing N.E lau, ar cither t Haaft 1

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our Course

from the Island of Ween S.E. by S. and you will see the Steeple of Malmoe 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. may anchor any where before the Town in 3 to 5 Fa.

N. B. 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 Malmoe and Falsterborn Point, but they go his way from Elboge S. by Southolme to Steden Point on the Illand of Meun: Southolme is all foul and dangerous.

ecklenburg, from Lubeck to the Isle of Rugen, and k and Koningsberg; with the Gulph of Riga, and Finland.

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other three ald go in for this Point. Falsterborn

sinond 3 Ls. S.S.W. from for Shelter,

From Garshead the Coast bears more E. to Rosehead, distance 21 Ls. no Place of note between. The small Places of Lyda, Stolp, Sernevife, &c. afford Pilots, but no great Ships go in there. From Rosebead a long Point of Land runs S.E. into the Sca, the eastmost end of it is call'd the Heel. This Land makes the W. side of the Gulph of Dantzick; it is 8 to 9 Ls. distance, the Shore very steep, 24 and 30 Fa. close to it. North of the Heel Point is a Flat, which stretches 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 Course to the Wellet is S. by W. You may anchor before the Port in 10 to 12 Fa. distance from the Heel 5 Ls. there take a Pilot to go into Dantzick, for the Land-Freshes

make the Entrance uncertain.

L. by N. from Dantzick lies Koningsberg Deep, 13 to 14 Ls. a fair white Strand all the way. At the Entrance to the Deep are two Beacons. Here make a Waaff for a Pilot, for the Sands are shifting, as at Dant sick, by the Freshes and the Ice; but you may anchor in the Road, Locksteed Point bearing N.E. in 8 to 10 Fa. The Pilots here carry you up to Pillan, and there you take Pilots again for the Haaft, into either the Pregel to Koningsburgh, or back W. thro' the Frisch Haaft to the Wessel, and up to Elbing.

N. by W. from the Deep is Bruftervort Point, distance 3 Ls. nothing of note between, but Locksteed Castle, a Sca Mark. From the Point to Memel Deep is 16 Ls. the Course N.E. by N. All this Coast quite from Pomeren is a fair Strand, and very fafe. Here is another Great Haaft; take a Pilot in: But when you are in, 'tis every where deep Water; you may ride where you please, it goes away W. as the other.

There is nothing remarkable upon all the Coast of Courland, from Memel Deep to Der Winda: The Course is N. by E. 14 Ls. to Lyban, and N.N.E. to Winda 17 Ls. The Coast is fair, and good anchoring almost any where. You may stand in for the Shore as you pleafe in 4 to 5 Fa. or keep off in 9 to Le Ea. The Land is reperally full of Hummocks, and

A. It is neep too, but on that hide towards the Shore are good Soundings.

rom Roffeed to the entrance into Straelfond call'd the c is 7 Ls. and to the western Point of the Island of Dorn-

buin close to Rugen it is 1 L. more.

The westermost part of the Isle of Rugen is Dornbush Point. South of this Point goes in the Jette, distant 2 Ls. This is the Sound which goes up to Straelfond. The Land here is steep 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 equal depth. Bring the Church over the Point, and the Point N.N.E. and anchor where you pleafe.

This is one of the four Points of Rugen; the other three are Whitmond, Jasmond, and Pecrt. If you would go in for Straelfond, or thro' the Jette, take a Pilot at this Point. From hence to Bornholme is 18 Ls. E.N.E. and to Falsterborn

14 Ls. N.N.W.

Whitmond is 4 Ls. N.N.E. from Dornbuft; Jafmond 3 Ls. E.S.E. from Whitmond, and Peert 4 to 5 Ls. S.S.W. from Jasimond: If you would go into any of these Roads for Shelter, make a Waaff and fire a Gun, the Pilots will come immediately off, and you will find them necessary, for the Ground is very uncertain and uneven.

To the fouthward of Peert goes in the New Deep, which carries you up to Stetin. You may get a Pilot at the Peert to carry you over the Bar. At the N. entrance of the New Deep, being over the Bar, you have 4 to 5 Fa. go S.E. to the Entrance of Pecn, and take another Pilot at Roeden to carry

you up the *Haaft* to Stetin.

Here are several Channels which are very helpful to the Navigation and Commerce of these Parts. 1. The Swin which lies E from New Deep 8 Ls. and runs into the Haaft, opposite to the Mouth of the Oder which comes down from Stelly.

- 2. Cammin, which is 5 Ls to the castward of the Swin, and is but a Sound, tho looking like a River.
 - N.B. These two, as also the Tven, go into the Great Haaft,

The Coast of Pomeren begins at the Mouth of Cammin Sound, and from the New Deep it lies E. to Colberg, distance

17 Leagues.

Here lies a Bank 5 Ls. from the Land, having 7 Fa. Water. When the Point of Jafinond bears W.N.W. Peert W.S.W. and Rough Island S. then you are upon this Bank. Between Jasmond and the Bank there is 12 to 15 Fa. but on the Coast not above 4 to 7 Fa. a great way off at Sea.

If you are bound to Colbergen, take a Pilot, the Entrance being difficult. From thence the Course is E.N.E. 3 Ls. to Costin, and thence to Garshead N.E. and N.E. by E. 9 Ls. Between them is Rugenwald, on the River Wipper: If you

would go in there, you must take a Pilot allo.

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From Der Winda, to the Point of Domesties, or Domeness, is 17 Ls. the Course N.E. by N. till you are off of Luseroort Point 4 Ls. and then E.N.E. There is a Shoal off of Luscroort, but you go over it in 4 to 6 Fa. The Land is fair and high, as before, and full of Trees. Domeness Point makes

the W. Land of the Gulph of Riga.

Domeness Point is opposite to Oesel Island, distance 6 Ls. the Island bearing N.W. by W. from it. The Channel is broad between and deep, having 12 to 16 Fa. Water, but a very uneven Bottom, and there are Dangers to be carefully avoided on the N. or Larboard-fide, for all the Shore of the Island Oesel is cover'd with Rists and Shoals. First there is a great Riff runs off S. by W. and S.S.W. into the Sea, at least 3 Ls. 'tis very dangerous, in some Places above Water, some 2 to 3 Fa. under Water, very uneven; and to the W. are many uneven Grounds and Overfalls, so that 'tis a terrible Coast in bad Weather.

If you come out of the Sea, and are bound for Riga, make first the Coast of Courland about Der Winda, or the Point of Luseroort, and fail with the Shore, as above, in 5 to 7 Fa. till you are to the E. of Luserourt Shoal: Then keep no farther off to Sea than till the E. Point of Doemburgh bears E S.E. from you; and keep that Course till the E. side of the S. Point of the Island Orfel bears N.N.E.

The Channel is deep, tho the Bottom uneven off of Demenefs; and when that and the S. Point of O fel bears N.W. and S.E. then in the Fair way, you will have 18 Fa. and then opening the Gulph of Riga, you come into 20 to 24 Fa.

There is also a Rulf at the Point of Domeness, which runs out 1 1 L. give ita Birth, and you may run by it from the W. with your Lead in 6 to 7, and to 10 Fa. as Wind and Weaon the W. fide of it; when it 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 Point of the Riff; and when it bears S.W. by W. then you are clear about it, and may fland away for Riga S.E. The Point of Domefuefs and Riga lie S.E. and N.W. diffance to Ls.

On your Starboard-side in this Course lies Kowerwick Bay, and a Point with a small Riss before it; but you may run by it in 6 to 7 Fa. neither have you any need to stand so far into the Bay, unless forced in by N.E. Winds; and even then you may anchor any where with safety in very good Ground, and

what depth you please, from 6 to 22 Fa.

Coming from Riga, the same Directions revers'd will be your

Guide. To avoid the Riff of Domefuefs, if you are at anchor under it, keep away N.N.E. and N.E. by N. and you run along

by it; come no nearer than in 9 to 10 Fa.

L. by N. callerly from Lonefness, distance 8 Ls. and N. by W. westerly from Rigi, lies Round or Runen Island, distance 14 Ls; you may run round it any where, only observe to come no nearer than 6 Fa. All the W. side in particular is soul rocky Ground; there is a little Flat half a League S.S.E. from the S. Point, where there is but one Fa. Water: Take the Soundings of the Shore in 6 Fa. and you run within it; or keep in 8 to 9 Fa. and you are clear without it: Being past it, either toward Riggs or the Ness, you have 23 to 24 Fa. in the Fair way.

The Port of Riga, that is to fay, the River Dwina, is what they call Pilots Water: that is, the Land-freshes and Drists of Ice in the River are so great, and the Stream so strong, that the Sands and Shoals are always shifting and uncertain.

from Riga the Course is N.N.E. and N.E. by N. to Pernau, distance 25 Ls. There is a small Port between call'd Lemsale, or Sales, within a River: Take a Pilot if you would go in there, as also at Pernau.

Abundance of Islands, great as well as small, lie in the Mouth of the Gulph of Riga; they must be taken notice of,

this being a Port of much Business.

The Island Kyn lies off of Riga N. by E. distance 15 Leagues, and from Round Island E. by N. 7 Ls. and the same distance from Sales N. W. by W; 'tis 2 Ls. long, and all soul about it: The Fair way between it and the Coast of Livonia has 8 to 9 Fathoms.

Amirook is a small Island under Oefel, it lies N.E. from Domefite so, distance 7 Ls. and N.W. from Round Island 8 I.s. all soul sharp stony Ground abound it, with great Overfalls and sudden uneven Ground, 3, 4 to 5 Fa. at once. It lies to the S. Point of Oesel ENE northerly, and W.S.W. southerly, dist. 5 Ls. yet between both is a good Road for easterly Winds. Under the S. Point of Oesel, the white Church bearing W. by S. from you, you may anchor in 7 Fa. good soft Clay; you may run along here in 7 Fa. almost close to the Shore. The E. Coast of Oesel is stat 3 to 5 Fa.

From the S. Point of Oesel to Arentsberg, against Ambrook, is a fair Channel of 7 Fa, Clay Ground: Keep to the Ambrook Subject the Channel two thirds, the Oesel side being foul.

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Islands about 1 L. afunder N. and S! you may go round them, There are two Shoals in and anchor any where about them. this Sound, called East and West Grass Grounds: they that pals the Moon Sound, should be careful of them. Between Grafbolm and Ocfel are feveral Islands.

Here you go into the Moon found from the North, or from the East. It is a great double Channel between Oesel and the Main: the Fair Way lies from West Grass Ground S. by E. to the Shore of Oclel, 6 to 7 Ls. From Grafbolm to the Paffage of the Moon Sound lie 4 fmall Illands, each a League afun-

der S.E. leave them not above a Cable's length to the Starboard fide; and you are then in the Fair Way of the Moonfound. There are two other Channels to the N.E. ward, one goes by an Island to the Castle of Moonfound, but 'tis unsafe and uncertain; the other lies to the Southward of the same Island: There is also another Channel, but 'tis narrow, and fometimes has only two to three Fa. The best Channel is that above by the fide of Oefel, where you have 3 to 4 Fa. at

least, and afterwards 6 to 7. At this E. end of Oefel is a foul Riff called Pater Nofter; this Point lies off from Pernau, call'd by the Sailers Parna, 8 Ls. NE. Between the Island Kyn and the Land, N.W. of Pernau, lie the Islands of Manuo and Sorgbolm. To fail into Per-

nan, you must take a Pilot.

Otgensholm is an Island N. by E. from Moonsound Point 2 Ls. 'tis bold, and you may fail round it, and anchor near it fafe from N. and N.W. Winds. From this Island to Nargen the Course is E. by N. distant 8 Ls. between them is a Sound called the Roge, making two Points, the Little and the Great Roge; the first to the S. and the other to the N. of the Sound.

At the Island of Nargen take a Pilot to carry you into Revel, or to the Wolf, to avoid the Revel Stone; Wolf is E. from Nargen 4 Ls. the Revel Stone is between both, (just as the Eddistone lies at Plymouth 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. distant from either about 2 Ls.

Between the Nargen and the Wolf is a broad rocky Shoal; bring the S. Point of Nargen S.W. or S.W. by S. and the N. Point W.N.W. and go between Wolf Island and the Main, and you are clear of it. From Nargen to the Island of Wranger the Course lies due E. dist. 7 Ls. and from the Wolf E. by S. 3 Ls. You may ride very safe on both sides of it, shelter'd from all Winds but the S. and S.W. which feldom blow there. S.E. from it lies Little Wranger 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: Due N. from Great Wranger is a bare Rock called the Cockfearr, with a Tower or Warder on it; 'tis above Water, and you may go round it, fo 'tis not

to dangerous as the Revel Stone. From the Wranger to the Road of Narva is 44 Ls. the Course generally E.S.E. and S.E. There is nothing of Note on the Shore of Eastland, or Easthonia, all the way, except three little Illands near Kock Herhour: but, on the other fide Mentil of the Outpit of Kiga, they must be taken horice or, this being a Port of much Bufiness.

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Opening N.N.W. from Ambrook 4 I.s.

The Island of Octel is almost Triangular, the three Points extending far into the Sea; one S.S.W. one due W. and one E. by S. The S. Point is described, and is called Swalveroort; the W. Point is called Houndfort, and the E. Point Pater Neffer. From the W. to the E. Point is 15 Ls. but all foul, and the N.E. part unnavigable: The W. Coast is full of Bays and Creeks, firetching from S.S.E. to N N.W. 12 Ls. Between them are two places, Wyck and Reck, where Ships load Corn and Flax.

North East of Oesel is the Island of Dagerors, of the like Triangular Form, but not near to large: the two Points are distant 8 Ls. Upon this Island is a great high Steeple, or Tower, built at the Charge of the Magistrates of Revel, to give Notice to Ships bound to their Port to keep off: 'tis feen a great way to Sea on every fide. The W. Point of this Island is called Dagerort after the name of the whole, and because of the Tower which stands there. The N. Point is called Syburg Nefs, distance between is 7 Ls. E.N.E. Between them. almost midway, is a long flat Shoal running out into the Sca 5 Ls. at least N.W. but there is from 3 to 7 Fa. upon it, and then deepning till it is loft.

Three Ls. N. and N.E. from the high Tower is a great funk Rock very dangerous, on which you have but 10 Foot Water: A Ship drawing 11 Foot strook upon it, and went off again, and immediately founding, found 5 Fa. Water: the Tower was

then S. and S.W. from them,

Syburguefs, the N.N.E Point of Dageroort, parts into two smaller Points, with a Riff from each Point, and a fair Strand between, where is good anchoring, clean hard Sand, 4 to 6 Fa. Water: and a little to the Westward of the Westermost Point is a very small Shoal, with but 2 Fa. Water. From this Ness to Otgensholm the Course is E. by N. distant 7 Ls. and to Graffolm S.S.E. 4 Ls. Graffolm and Oxholm are two small

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of the Sea N. are feveral Shoals and Islands.

Between Monkwick Point and Wranger those three Islands lie about half a League from the Shore, very rocky and foul,

The Islands and Shoals which lie off to Seaward are Eckholm, Highland, the Chalk Grounds, the Hosts, Great and Little Tu-rs, and the Island with a Mass. You may keep between all these Islands and the Shore on a clean Strand: From Wranger to Eckholm is all clear: 14 Ls. E. by S. from Eckholm make Telsbrough Cassle, the Course is E. 5 Ls. there is a little Shoal in the Fair Way 2 Ls. S.E. from Great Tutters, but there is 5 Fa. upon it.

Some Mariners chuse to go from Wranger to the northward of all these Islands and Shoals for Narva, by the Island with a Mast on it, and so to Highland: From the S.W. end of Highland Island to Narva is 15 Ls. and this way its al-

most 50 Ls. from Wranger to Narva.

The Town of Narva lies upon a River, 2 Ls. within the Point. Take a Pilot at Highland, if you come without the Islands, or at Telsburg if you come by the Coast.

From the Road of Narva the next Point of Land is Ruffhaken N. by W. dift. 5 Ls. and from thence to Rhodell Island, in the Mouth of the Harbour of Wybourg, is N.E. by N. dift. 23 Ls. Between these two are several Bays and some Rivers, not yet fully surveyed.

N. B. This Part is called the bottom of the Gulf of Finland; all our Pilot-Books are deficient here, this Part being quite alter'd fince any Survey was made: for the great River Neva, formerly of little use, is now become noted for Business and Navigation. The Castle of Cronsloot at the Entrance has been built, and the Island fortify'd, and the Entrance of the River buoy'd and beacon'd up to Petersburgh, a Port and City not then

Directions for Sailing on the Coasts

known or heard of, but now the greatest Port of Trade in the Baltick: a Plan of which River and City is hereto annex'd.

The Fort of Schansterny is demolish'd, the Royal Fortress of St. Peters rais'd on an Island in the River, and the City of Petersburgh built on all the Shores about it. As for failing into this Imperial Port, the careful Mariner will not fail to call for a Pilot; and the late Czar appointed a fufficient Number to be always ready at Crouflot Caftle for that purpole.

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Sailing Directions for the Coast of Sweden, from Falst tom of the Gulph of Finland exclusive; also the Isl



F you are bound from the Sound along the Coast of Sweden, the next place from Falflerborn Point is Trelborg, or Elburg; the Course E. by N. distance 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 I sted, distance 8 Ls. There is a Shoal lies off the Coast most part of the first 3 Ls. therefore be careful to keep off in 8 to 9 Fa. at least: afterwards you may come into Fil. a bold Shore. If you would go in at Ifted, make a Whaaff

for a Pilot; it is a good River, and a Place of Trade.

From I'lled, Goesbeer Point bears S.E. by E. distance 3 Ls. there is a great Shoal runs off from this Point near 2 Ls. but you may run over it in 6 to 10 Fa. When you pass it in 10 Fa. the Island of Bornholm bears E. by S. or E.S.E. from you diffance 4 Ls and the Point of Sandhammer will then lie due N. or N. by E. distance 2 Ls. From I fled the Island of Born-Folm bears S.E. by E. distance 9 Ls. and from Falsterborn E. by S. dift. 22 Ls.

From Sandbammer to Albuys is 8 Ls. the Course is 2 Ls. N.N. E. and 6 Ls. due N. Albuis stands upon a River, or rather several Rivers which come in there; and this makes the Depthsuncertain and hazardous; for fometimes here is 10 or 11 Fa. Water, and at other times not above 3 to 4, which is occasion'd by the great Freshes that come down those Rivers from the Mountains. There are also abundance of Rocks in the several Channels, so that it is necessary to take a Pilot: The Town of Christianstadt also is up one of those Rivers.

E of this River lies the Island of Hanno, distance A Ls. there is good Riding under this Island, and especially within it, where you have 6 to 8 Fa. shelter'd from southerly and westerly Winds. Within Hanno goes in a Sound to Carlshaven and Selsborg, but there is not Water for great Ships.

S.E. from Hanno lies an Island, called by way of Eminence the Rock: it is indeed only one great Rock, with some smaller Rocks adjoining; but 'tis feen very far to Sea. This Rock lies from Albuys E. by S. diftance 13 Ls. and from Bornholm N.E. northerly 16 Ls. and from Sandhammer Point E.N.E. northerly 16 Ls. and from the Island of Oeland 10 Ls. There is no anchoring near them, but there is Depth enough to fail a-

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Being arriv'd at Rhodel Island, whether from High Island or from Narva, take a Pilot to carry you up to Wybourg, the Port being difficult, the very good.

N. B. Being now to give Directions for the Coast of Sweden, we must go back to the Sound, and come forward E. as we have done for the German Coast; all the Surveys formerly taken going that way.

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In the Passage out of the Channel of Calmar, between the N. end of Oeland and the Main, likes another great Rock like the Outlookers, but very much higher; tis called Swedes Jeoffer: it may be seen off at Sea a great way to the Eastward of Oeland, quite over the Island, and looks like a Hill upon the Island; yet it is not proportion'd in compass, and it is all clean, fo that you may anchor near it in 18 to 20 Fa. N.W. from Oeland, distance 8 Ls. is the Channel of Idesound, called fo from another great Rock in the Sea named *Ideboe* or *Idhoe*: it is furrounded with other Rocks, but especially on the N. side, where fome appear above, and fome lie under Water: they are called the Idebanks.

This Sound is also called the Channel of Westerwyk; but there are many Islands, Harbours and Loading-places in it, as Silbuy, Vrowenburg, Flourby, Stixholm, and Schelleyr. If you are bound in to any of those places, take a Pilot at Oeland; for here are abundance of Rocks, some above and some under Water, and no Stranger can find the Channel.

The like is to be faid of Barfound, which is still more difficult than the other, having feveral Rivers and Sounds within it: There is no a place in the whole Baltick more difficult, or where the Channels run in among fuch an infinite Number of frightful Rocks; and that in the Rivers the Depth is uncertain

From Silbuy in Westerwyk Channel to Schelsuyr is 7 Ls. N. by W. all the way among a Labyrinth of Rocks, not practicable but by Pilots: likewise from Westerwyk Channel to Barfound, among the fame Rocks. You may fail from Silbuy into Barfound, and quite up to South Koppen, to North Koppen, and to New Koppen. From Westerwyk Channel to Barsound is 9 Ls. the Course uncertain because of the Rocks: and from the N. end of Oeland to Barfound, is 15 Ls. the Course N. by W. not more northerly, for fear of the Idebanks.

If you are bound in for South Koppen or North Koppen, you must take a Pilot; and you had best do it at Oeland, or at Gothland, according to the place you come from. In the Fair Way to them is very deep Water, sometimes 18, 20, to 30 Fa. but no Stranger can stir without a Pilot.

When you are pass'd these difficult Bays and Sounds, the

E and 6 Ls due N. Alburs trands upon a River, or rather leveral Rivers which come in there; and this makes the Depthsuncertain and hazardous; for sometimes here is 10 or 11 Fa. Water, and at other times not above 3 to 4, which is occasion'd by the great Freshes that come down those Rivers from the Mountains. There are also abundance of Rocks in the several Channels, so that it is necessary to take a Pilot: The Town of Christianstadt also is up one of those Rivers.

E of this River lies the Island of Hanno, distance 4 Ls. there is good Riding under this Island, and especially within it, where you have 6 to 8 Fa. shelter'd from southerly and west-cily Winds. Within Hanno goes in a Sound to Carlshaven and

Selsborg, but there is not Water for great Ships.

S.E. from Hanno lies an Island, called by way of Eminence the Rock: it is indeed only one great Rock, with some smaller Rocks adjoining; but 'tis seen very far to Sea. This Rock lies from Albuys E. by S. distance 13 Ls. and from Bornholm N.E. northerly 16 Ls. and from Sandhammer Point E.N.E. northerly 16 Ls. and from the Island of Oeland 10 Ls. There is no anchoring near them, but there is Depth enough to sail about them any where.

N. by E. of this Rock distance 3 Ls. is the samous Haven of Carelferson, which is the Arsenal of Sweden: the Channel is deep enough for the biggest Ship in the World, but the Entrance so dissicult, that you must take a Pilot: It is fully described in the Plan hereto annex'd, drawn after the newest and

most exact 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 almost all Rocks quite to the Main; so that there is no failing within them.

Between those Rocks and the South end of Oeland, goes in the Channel of Calmar, or Calmar Sound, which is at the Entrance about 4 Ls. broad, measuring from the S. end of the

Itland, to the Point off of Christianople.

There are several Places of Trade within this Sound besides Christianople and Calmar; but it is a frightful Channel for a Stranger, by the appearance of such terrible Rocks on both sides; tho when it is known, the Channel has Water enough:

but if you are bound in take a Pilot at Ocland.

The Island of Oeland is also full of difficult Harbours and Roads on the fide next the Channel. Oeland is a long narrow Slip of Land, lying N.N.E. and S.S.W. parallel with the Coast of Sweden; it is 24 Ls. long, and but 1 ½ L. broad, in some places less: there are 18 square Towers built upon it, very uleful to the Pilots for Sca-marks. The E. Coast is clean and bold, but the W. Coast is full of Rocks and Dangers; and therefore a Pilot is necessary.

From the S. end of Oeland to the S. end of Gothland, the distance is 24 Ls. the Course N.E. by E. but the Fair Way because lies N.E. by S.

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Fa. but no Stranger can stir without a Pilot.

When you are pass'd these difficult Bays and Sounds, the next Point is Landsoort; it is 7 Ls. E. by N. from Havering, an Island at the Entrance into the Channel of New Koppen, the last of the Channels above-named. Between them is Telgben Sound, being the Mouth of a very great Lake, the greatest in Sweden: at the Mouth of it is Trosa, with a small Haven farther up the River Telgben.

Between this Sound and Landfoort lies a great Rock in the Sea called Hartfo; and E.N.E. from that are a Cluster of Rocks called the Heyrhams: these are soul far off, but there is no

need to come near them.

Landfoort is a high Point of an Island, which makes the W. Point of the Leith or Channel of Stockholm: It lies W. by N. from the Dantzick Gat Point, and from Oeland N.N.E. distance 24 Ls. but the Fair Way from Oeland lies N. by E.

Here they usually take a Pilot for Stockholm; for the chief entrance goes in close by the Point, between the Rock call'd Karwasen and the Shore; about a Mile and half from the Shore is a fair Channel. I do not describe these Rocks, nor any other in this River or Channel, which is perhaps the best and yet the most nice and difficult in the World; because the careful Mariner will always take a Pilot for such an extraordinary Place.

Due S. from the Entrance into the Channel of Stockholm, is the Island of Gothland, distance 28 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 same Point are the Great and Little Karels, two Rocks lying at half a League distance from the Shore, and the same distance from one another: There is good anchoring on either side the Lesser Karel, in 8 to 10 Fa. but the Great Karel is foul, you must come no nearer to it than 1 t or 12 Fa. Between them you have 13 to 14 Fa. Between them and the Point is Bosciek: But there is a foul Riff on the N. side of the Entrance; keep osl it in 8 Fa. at least.

N. by E.

N. by E. of the Kurels are Westergoe, and the Isle of Reestholm. Westergoe is a small Haven, and goes in about half a League S. of the great N.W. Point of the Island. Two Ls. farther N. is Wisby; which has been much larger than it is, the Rains lying offlike Rocks in the Sea. At the N. Point of the Island is a little uninhabited Island call'd Fare; it lies from Wisby N.E. by E. distance 10 Ls.

N.E. by N. from this Island lies Gothland, distance 9 Ls. 'tis a small Island, and there is good anchoring on the N.W. and S.E. sides of it, but all Shoals and Rist, at the N.E. and S.W. ends. On the E. side of Gothland are several good Havens and Roads, as under Houbrough Tower, Steet Haven, which is a very good Port, Easter Garn, Ny Garn, Sandwick, Narwick, near Holm, and Heligholm: You may have Pilots to direct where to ride, and it is not safe to venture without.

From Stockholm northward lies the great Boden Sea, or North Boden, as the Swedes call it; we call it the Bothnich Gulph, from its Situation on the E. fide of the Country of

Botheria in Sweden.

We have no Survey of the Coast in this Gulph, notwith-flanding there are many good Ports and Havens in it on both sides, and several large Rivers empty themselves into it, and notwithstanding it lies near 400 Miles in length: But as there is no Navigation for great Ships, the depths being uncertain, and the Entrance as it were block'd up with Islands and Rocks; to our Pilots have not given any Charts of the Coast, as being of no use to us who never fail thither.

From the Shore of Sweden towards the Isle of Aaland he many Islands and Rocks, and between them is the chief Passage into the Bothnick Gulph. This Passage is call'd Aaland Haeft; finall Vessels go in and out there: But the Course of our Navigation lying over on the S. side of those Islands to-

wards Finland, our Survey follows the same way.

No Stranger will pretend to fail from one Place to another on this Coast without a Pilot, so that we need not attempt to give Directions; nor would it be practicable among an hundred Thousand Islands, which another Writer says is not half the number: We shall therefore only describe the Course in short.

We suppose a Ship bound from Stockholm to Abo, and along the Coast of Finland to Hybourg: The Master to be sure takes a Pilot to bring him into the Sea from the Coast of

Sweden.

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Sailing Directions for the Coast of Norway, from the and sorward to the North as

Actificand lies to the S. of the Rocks call'd the Pater Notices. From Farder Island hither, the Shore is bold, and good anchoring in 35 to 40 Fa. From the Pater Notices to Harmen-head is 5 Ls. and thence to South Wixholm 6 Ls. The Course is N. and N. by W. Between Harmen Sound and Maeistrand comes in a great

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Near the Entrance into the Haaft of Aaland is an Island call'd Erk: From hence the Courfe lies E, to the life of Vitor, distance 9 Ls. From thence the Course is N. by E. 4 Ls. by a great nameless Island; and then steering on E. you come to the Channel of Albo.

Or from Erk Island is another Channel call'd Corp Sound, from an Island call'd Corp. The Pilots take either of these Channels, according as the Place from whence they come requires. There is also a Channel this way thro' the Leith of Albo into the Bothnick Gulph, leaving the Illand of Uttos on the Starboard-fide. The Courle from Vttoy to the Channel of Abo is N. and N. by E.

From Abo the Course is E. and E. by S. thro' another Channel to Rough Island, and to the westward to the Channel of Luys. Thwart of the Channel of Luys you may fee the Hills about Revel in Liefland. The outmost Rocks of this Channel are E. from Vittoy, distance 20 Ls. all the way full of Rocks, Islands, and broken Lands, so that no Ships dare go among them.

From this Channel to the Channel of Elsingvos is 16 Ls. the Course E by N. The Pilots themselves have sometimes difficulty enough to get out from among those Scars, as they call them, if a Storm happens but to have carried away some of the Warders or Marks.

From the Channel of Elsingvos 'tis 11 Ls. to Pelting Sound, the Courfe E.S.E. This Channel is shelter'd by so many Rocks on each fide, that they are like a Wall, sheltering you from all Winds: They shoot away from the Sound off to Sea fouth-

ward, and are there call'd the Pelting Scars.

From thence it is 5 Ls. to Putsfagre; this is a great Rock in the Sea, not a Port or Sound.

N. B. From the Putsfagre Rock you may see the Island of Highland off of Narva, distance 6 Ls.

Five Ls. to the castward of Putsfagre are a Cluster of sunk Rocks, call'd Epels Searen, that is, the Epels Rocks. From these Rocks to Goe Scars is 9 Ls. the Course still In northerly; and 7 Ls. from thence is Rhodel, at the Mouth of the Sound going into Wybourg, and where our Survey of the S. Coast of the Baltick ended. And thus the two Coasts are brought together, and the Account of the Baltick cloted.

way, from the Rocks of Maelstrand to the Naze, the North as far as Bergen.

> Thwart of Oxeford you see the Drommel-hills W.N.W. from you, and on the E. of the Drom Sound is the Haven of Oneford: Take a Pilot in there, because of many funk Rocks; when you are in, there is good anchoring in 20 to 25 Fa.

When the Dronmels are N.W. and N.W. by N. from you, then you are thwart of Mardow, and to the castward of Mardow specin the Draw Sound difference - In Harcally are leveral

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Sailing Directions for the Coast of Norway, from t and forward to the North a

Aelstrand lies to the S. of the Rocks call'd the Pater Noglers. From Farder Island hither, the Shore is bold, and good anchoring in 35 to 40 Fa. From the Pater Nofters to Harmon-head is 5 Ls. and thence to South Wixkolm 6 Ls. The Course is N. and N. by W. Between Harmen Sound and Maelstrand comes in a great River; the Opening is call'd the Keer Sound navigable far in: But you must take Pilots.

The Winhelms are two Islands North and South, lying far within Land in a great Sound. From the South Wixholm to Acker Sound is 6 Ls. N.W. by W. Thence 5 Ls. N.W. to

Ottrum, which is another Sound.

W. by N. from Acker Sound is the Sifters Island, distance 4 Ls. Behind the Sifters lies Grafwick, a Port for loading small Fir-Ware, as also at Shipbill; but you must take a Pilot

N.W. by N. from the Sifters is the Island of Baft, distance 5 Ls. To the E. of the Sifters is the Haven of Elfang.

Take a Pilot at the Sifters to go in there.

From the Bast to the Point Roge the Course is N.N.E. distance 5 Ls. there is a plain Strand on the E. side 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 Laerwick is 4 Ls. the Courle W S.W. and to the Baft is 5 Ls. N. by W: Lacrwick is a large Sound, having many Buoys and Creeks, 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 Nefs is a Land behind the eastermost Point of Long Sound; there is a good Haven, and easy to run in: So

you need no Pilot there.

Long Sound is one of the best Harbours of all Norway: it lies a long League from Joffers Island N.N.E: Before it, there lies a high round Rock, whereon there is a Warder, or Mark Tree: King's Haven is the fouthermost Channel of that Sound: You take Pilots at Joffers Island, to carry you to all the Harbours in Long Sound, which are very many. Among these are East Kiel, West Kiel, Abbeford, Sandford, Longen, and Oxeford, and many more, all Loading-places, tho but finall Towns

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Thwart of Oxeford you see the Drommel-bills W.N.W. from you, and on the E. of the Drom Sound is the Haven of Oxeford: Take a Pilot in there, because of many sunk Rocks; when you are in, there is good anchoring in 20 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 eaftward of Mardow goes in the Drom Sound, diffance 1 ± L. Here also are several Channels to run in, and you will find it absolutely necessary to take a Pilot.

N. B. The Warders mention'd fo often in the Pilot Books to be feen on these Coasts, are certain great old single Fir Trees, or, for want of such, large Poles, lest upon Hills and other rising Grounds, as Marks to know the Land and the Sounds or Harbours by, as the Steeples and Towers are in other Places.

N. B. Note also, That the Word Sound is used on this Coast for any Opening of a River, or any Gulph or deep Inlet of the Sea; the same as are Deeps on the Coast of the Eyder, the Elbe, the Weser, &c. and the Gulphs on the Coasts of France, Spain, Italy, &c.

Kirk Sound is one of those; 'tis the Opening or Mouth of a River; 'tis eastwards from Mardow, and half a League from it due E. is the Haven of Hessness, near which are two Warders. Thwart of the Warders you have from 50 to 70 Fa. Water, but in the Haven 30 to 35 Fa. This is all a Place of great Business, and frequented by a world of Ships for loading Mardow Timber, Deals, &c. Here are several large Sounds between Kirk Sound and the Naes, for all which Pilots are necessary, such as Hammer Sound, Old Hill Sound, Wolf Sound, Keperwick, Fleckery, Holy Sound, and Scar Sound, most of them loading Places.

From the Naes, which is the Southermost part of Norway in the North Sea, the Coast lies at first Westward by the Land of Leest; but Eastward it stretches without the Rocks, till you are past the Island of Fleckery E.N.E. and from Fleckery N.E. to the Long Sound mention'd above, distance in all 26 Ls. The Land is full of steep and stony Hills, and the Sea of frightful Rocks and dangerous places; but among them there are abun-

dance

dance of good Harbours, very safe anchoring, and Roads shelter'd from all Winds, with deep Water to the very Shore side; which makes it, as 'tis sull of Trade, very convenient for lading Ships in almost every Creek, but no stirring without a Pilot.

The first Haven to the eastward of the Naze is the Cow and Calf, called so from two high Mountains, one bigger, the other less, within the Port. Here if you make a Signal, the

Pilots come off immediately.

N. B. The Tides keep no certain Course along this Coast; sometimes there is a strong Current West, so hard that a Ship shall scarce be able to stem it with a fresh Gale from the S.W. This is ordinarily in the Spring; the nearer the Land, the fiercer it runs: Yet with all this Current here is little or no swell of a Tide.

N. B. This is the same Current mention'd before, which sets out from the Belt, and shoots out from the Schaw to the Coast of Norway N.E. and then turns along the

Coast towards the North.

W. from the Naze are the two Sounds or Havens of $N.\omega$ and Old Silve: the Entrance into the first is called the East Gat, and the other the West Gat. If you are bound up to either of them take a Pilot with you.

W.N.W. from the Naze the Coast lies by the Land of Leest to Hittero, distance 5 Ls. To the S. of Hittero is the Entrance into Witford N.E. and to the northward into Berg-

found E.N.E.

N. from the Island of *Hittero* is Soggendal, distance 2 Ls. and N. from that is Ekefound, distance 1 L. and N. from that is Sirowack distance 2 Ls. it a Haven far in. Thwart of it is a

great Rock funk 2 Fa. therefore a Pilot is necessary.

Six Ls. from Sirowack is Jedderland: you go first N.W. by N. 2 Ls. to Point Walbert, and then N. 4 Ls. to Jedderland; 'tis a good Coast and clear, except a small Riff of Sand to the N.W. of the Rock called the Veetstone. This Vectssone lies 2 Ls. from the Shore, distance from Point Walbert 5 Ls. N.W. Between them and the Land, to the S. of the Veet Rock, is a Ledge of low Rocks, called the Rut: keep something West till the Veet Rock appears a little longish, not round; then you go clear of the Rut Rocks.

N. from the *Veet* lies the Island of *Wittings-Eye*, distance 2 Ls. and N.N.E. another called *Sibrichstone*, distance 4 Ls.

Within the Veet lies the Stavanger Sound: you go in N.E. between the Veet Rock and the Main, leaving the Rut Rocks on the Starboard fide. The Veet Rock is a Guide into the Stavanger, and into the Tongeness Sound, as also into Doeswick; and into Scuteness Sound, and to all the Sounds on that fide: and Pilots are taken in at Tongeness Point for all those Places.

From the Vect to Scuteness is 5 Ls. the Course N.N.W. and from Scuteness W. by N. distance 4 Ls. lie the Rocks called the Outseers, or Wisers, in English the Outlookers, because they are seen a great way off, and are of use to be lookt out for.

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When you are clear of Wybrants Eye, and would fail over to Bommel by the Blocks, the Course is N.W. by N. and N.N.W. distance 5 Ls. On the W. side 'tis all broken Land, Islands and Rocks, only about the middle of the Passage there is a clear Channel, either forward to the N. or W. by N. into the Sea.

The *Blocks* are two Rocks lying even with the Water; go within them both, leaving them on the Larboard-fide (failing to the northward) and run close along the E. Shore, between the *Blocks* and the *Long-holm*, which is an Island lying in a Bay near the Shore.

The next great Island to the northward of Scatteness is the Bommel; and the southmost Point of the Island is call'd Bommel-head: it is a high steep Point; and to the southward of it is Bommel Sound going N.N.E. and S.S.W. 'tis a large Channel running out into the Sca. Bommel is all low plain Land, except the S. Point, and appears almost perpendicular: It may be known by a high round Hill call'd Sack, which appears like a Sugar-loaf, or a Man's Hat.

To fail into Bommel Sound from the Sea, bring Bommelhead E.N.E. northerly from you, and fail in for it, and as you come near it, leave most of the little Islands on the Starboardfide, and run clear by it to the northward.

Being turn'd about *Bommel* to the eastward, you will find a Harbour call'd *Bommel Harbour*: There is a Rock just before it; and between the Rock and the N. Point of the Harbour is a sunk Rock: Therefore to go in, keep between the S. Point and the said Rock: And as soon as you are in, you may anchor where you please; it is a good Harbour for all Winds.

About two Ls. to the northward of *Bommel* Harbour there is a great Sound call'd also the *Bommel*; it is the Mouth of two or three small Rivers which fall all into the Sea together. Against it on the W. side of the Channel, lies *Munsser* Haven, 'tis a good Harbour for southerly Winds. You may anchor here in 10 or 12 Fa. thwart of a little white Church.

Northward of Munster Haven is Bule Harbour, distance one Mile; here is good anchoring for southerly Winds: And N. of that is Volgar Road. There is a little Island just before it, where you may anchor on any side of it, as the Wind is; for you may sail round, or go in or out on which side you please.

To the northward of Volgar Road, distance 2 Ls. there is an Island call'd Bremer Holm; between them is a sunk Rock: Keep the Island in the Entrance of Volgar River, a little open with the Point of Landon the N. side, and you go clear. Here the Channel parts in two; the eastermost is call'd the Old Leith or Channel, and the other the New: The Old Leith has not above 2 Fa. in the deepest, but on the E. side of the Entrance you may anchor safe for easterly Winds.

But the New Leith is broad and deep, and is a very good

flowe lies 2 Ls. from the Shore, distance from Point Walbert 5 Ls. N.W. Between them and the Land, to the S. of the Veet Rock, is a Ledge of low Rocks, called the Rut: keep something West till the Veet Rock appears a little longish, not round; then you go clear of the Rut Rocks.

N. from the Veet lies the Island of Wittings-Eye, distance 2 Ls. and N.N.E. another called Sibrichstone, distance 4 Ls.

Within the Veet lies the Stavanger Sound: you go in N.E. between the Veet Rock and the Main, leaving the Rut Rocks on the Starboard fide. The Veet Rock is a Guide into the Stavanger, and into the Tongeness Sound, as also into Doeswick; and into Scuteness Sound, and to all the Sounds on that side: and Pilots are taken in at Tongeness Point for all those Places.

From the Veet to Scuteness is 5 Ls. the Course N.N.W. and from Scuteness W. by N. distance 4 Ls. lie the Rocks called the Outseers, or Wisers, in English the Outlookers, because they are seen a great way off, and are of use to be lookt out for.

N. B. Hither the Stream above-mention'd holds still; and tho the Water does rise and fall, yet'tis not at certain times: but from Stadeland N. to Drontheim, the Tide rises and falls by the Course of the Moon, as in England.

At the N. Point of Stavenger Sound lies an Island called the Bock; between it and Scuteness goes in the Channel of Bergen. Scuteness is a long narrow Island lying along the Shore: it is about 4 Ls. in length; there are small Rocks and soul Grounds at the S. end of it: but to keep clear of them, as you come out of the Sea, keep the Point of the Bock a little open with the South end of Scuteness, and that will carry you clear to the Southward.

Between Bock Harbour and Copperwick, on the East side of the Channel, is a great Sound, which in coming from the Southward shews broader than the Channel it self: but to avoid mistaking it for the Channel, keep the W. Shore aboard, till you are against Copperwick; and then you are past the Sound: About 1 \(\frac{1}{2}\) L. from Bock Island is Copperwick Bay: There is a small sunk Rock at the Entrance called the Copper Nail, but there is always a great Pole upon it, to know it by. About 2 Ls. from Bock Island to the northward in Bergen Channel, is Great Warder-Road, called so from 4 great Warders that are on Scuteness. Here is a good Road, you may anchor in 6 to 12 Fa. secure from southerly Winds.

Half a L. to the northward of Great Warder-Road is Noton, with a white Church and some Houses near it; there is good anchoring for either northerly or southerly Winds; also there is a Road within half a L. of the N. end of Scuteness, where you may anchor in good Ground and 10 Fa.

There is a little Island at the N. end of Scuteness, called Wybrants Eye; where under a Rock there is good anchoring for all Winds, in any Depth you please.

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two or three small Rivers which sall all into the Sea together. Against it on the W. side of the Channel, lies Munsser Haven, it is a good Harbour for southerly Winds. You may anchor here in 10 or 12 Fa. thwart of a little white Church.

Northward of Munster Haven is Bule Harbour, distance one Mile; here is good anchoring for southerly Winds: And N. of that is Volgar Road. There is a little Island just before it, where you may anchor on any side of it, as the Wind is; for you may fail round, or go in or out on which side you please.

To the northward of Volgar Road, distance 2 Ls. there is an Island call'd Bremer Holm; between them is a sunk Rock: Keep the Island in the Entrance of Volgar River, a little open with the Point of Land on the N. side, and you go clear. Here the Channel parts in two; the castermost is call'd the Old Leith or Channel, and the other the New: The Old Leith has not above 2 Fa. in the deepest, but on the E. side of the Entrance you may anchor safe for easterly Winds.

But the New Leith is broad and deep, and is a very good Channel. About the Middle of the New Leith there is a little Bay or Creek call'd Rugga Holm: Here is no anchoring, but you may lie between the Island and the N. Point, with Cables made fast to the Rings, placed on both sides for that purpose.

North of *Bommel* lies *Red-root-holm*, or *Root-holm*, distance near a League: Between them is a fair clean Channel into the Sea, W.S.W. call'd *Eoltmerford*: It is a large wide Sound. On the S. side are some sunk 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 little from the N. Point of Bommel lies another funk Rock; which tho it is 5 or 6 Fa. under Water, yet when it blows hard off the Sea, the Sea breaks very much upon it: To come in here keep Red-holm, 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 Reinknap, Deep-sound, Strom-sound, Pape-sound, Bay-holm, and several others. You may anchor on the E. side of Bay-holm, but take care to avoid a Ledge of Rocks that runs out from the N. end of the Island.

North from Bay-bolm is a small Bay call'd Crabkork, distance $1 \stackrel{\cdot}{+} L$. at the N.E. Point of the Island of Fuyr for d. It is of use only for small Ships, and so 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. Between them is a Sound call'd Crab Sound, opening S.W. by W. and W.S.W. into the Sea; there are three Hills on the main Land of Norway, almost like the Drommels, and therefore call'd by some the North Drommels; bring them N.E. from you, and that brings you before Cruys Sound. If you would go in at this Channel of Cruysford, either to Watting Strome or any other Place within the Great Island, or if you would go this way to Bergen, which may be done very well, the

Channel being all deep tho difficult, you must be sure 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 fland in for Jelleford, leaving Aland on your Larboardfide; and get in between it and the Reefflone, and fo up to Bergen, which is in fight: As you go past the S. Point of Aland, there is an Island or Rock, upon which is fix'd a great Iron Ring, to which you may fatten a Cable, if you are be-

calm'd to the wind:

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Sailing Directions for the Coast of Norwa



ROM Jelleford to the South Point of the Stad-Land it is about 20 Ls. N.N.E. and N. by E. the Fig Coast is all broken Land and Islands, but finall Velfels may fail within them all. The Norway Barks of all Places between Senteness and the North Cape,

can fail all along within the faid 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 small Rocks, and too near the Shore.

About 7 Ls. northerly from Harle Island, and 11 Ls. northerly from 'felleford, there is a Range of Rocks that shoot 3 or 4 Ls. into the Sea, call'd Outery, or Outer Rocks: And about 4 Ls. and a half beyond, or to the northward of them, is the Island call'd the Old, about 3 Ls. from the Shore.

Between the Old and the Out-weers or Outer Rocks, there is a good Harbour call'd Southford: There are two Islands lie

before it, but you may fail in between them. Old is a high Rock or Island; it has many small Rocks about it, and a Riff of Rocks stretching S.W. from it into the Sea near 2 Leagues.

There is a great Rock call'd Kyn, N.W. by N. from the Entrance into Southford, distance 7 Ls. and N. by W. from the Old, distance 3 Ls. It makes with two sharp Tops like a Bilhop's Mitre.

E. by S. from Kyn there goes a great Sound far up into the Land call'd Kyn Sound; upon it are two Towns, call'd Waldres and Easter Dale. About 2 or 3 Ls. northward from Kyn lies Orriack, it is also a great Rock, and makes like one round Hill; and about 4 Ls. 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 likewise the other way to Scuteness, being all within Land. And at the Entrance of this Sound, a little within the S. Point of the Head Land, there is a small Bay thwart of a Beacon; here you may anchor, and be shelter'd from westerly, northerly, and cafterly Winds.

Between the N. Point of Stadland and Broad Sound are the Islands of Flowack; and without them, N.N.E. from the N. Point at 4 Ls. distance, is the Island Swynoe.

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Sailing on the Coasts of Norway.

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calm'd, to prevent the Current driving you along by zliand to the northward; the faid Rock is all clear, and you may wind about it without danger.

There are two small Bays or Harbours on the Island of Aland, in which you may anchor upon Occasion: If you come from the northward, and would go into Bergen, you may go in thro' Harleford, which is a Channel between Harle Island and the Main, and goes out N.N.W. and N. by W. from Aland into the Sca.

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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 keep between the Main and the Island, and you come to Romf-dale River.

There is a great River which comes in S.E. from Godon,

from Sickule, Roxingpale, and other loading Ports.

To the northward of Broad Sound lie 5 large Islands; the first is Luycke, a high Island; the second is like it, between these go in Luycke Sound: the third is Harusa, it hath a high Hill on the middle of it, but is low at both ends: the sourth, or smallest of them, is called Lemso, or the Low, it makes in 2 or 3 low Hummocks: the sist is Flemsom, or Roof Island; it has but one Hummock, which is at the W. end of it, and shews in the Form of the Roof of a House; there is a Bay within the E. Point of this Island, where there is a good Road Landlockt from all Winds. On the N.E. side of this last Island is the Channel called Noguesord, it goes S.E. into Romsdale River; and the Rocks that lie between Flemson and Roe Point are called Romsdale Scarrs: Among them about E. from the N. end of Flemson, is the Island Lever; in going in or coming out you may sail on either side of it.

Boorfound is a Haven among the Rocks fouthward of Eoc Point; there is good anchoring, but not fafe to run in without a Pilot: the fame is the Case of all the other Havens and Roads hereabouts, for the Shores are cover'd with innumerable Rocks.

Stemmeshest is the next Point of the Main Land from Boe N.N.E. distance 3 Ls. and lies from the N. Point of Stadland N.E. by N. distance 36 Ls. To sail hither, it is best to keep without in the main Sea, except you are bound for Sudmer or Romsdale. Stemmeshest is a high Point of Land; and if you make it coming from the S.W. out of the Sea, it appears in 2 Hummocks. Turning in by Stemmeshest is the Channel which lies N.E. by E. to Drontheim: I advise all Strangers, and all with great Ships, to take a Pilothere, for the Rocks and dangerous places are not possible to be described.

All the way from Stemmeshest to Drontheim may be called a River or Sound, for it is within a long Riff or Range of Islands, with an endless number of Rocks: It is Pilots work, and it is not possible to give a persect Description; Pilots are to be had

Old, distance 3 Ls. It makes with two sharp Tops like a Bishop's Mitre.

E. by S. from Kyn there goes a great Sound far up into the Land call'd Kyn Sound; upon it are two Towns, call'd Waldres and Easter Dale. About 2 or 3 Ls. northward from Kyn lies Orriack, it is also a great Rock, and makes like one round Hill; and about 4 Ls. to the northward of that, is the 9. Point of Stadland: Between them goes in a great Sound, by which you may sail to Bergen one way, and likewise the other way to Senteness, being all within Land. And at the Entrance of this Sound, a little within the S. Point of the Head Land, there is a small Bay thwart of a Beacon; here you may anchor, and be shelter'd from westerly, northerly, and easterly Winds.

Between the N. Point of Stadland and Broad Sound are the Islands of Flowack; and without them, N.N.E. from the N.

Point at 4 Ls. distance, is the Island Swynoe.

If you are bound into the Broad Sound to Sudmer, keep without the Islands of Flowack, about the northmost of them, which is called Hossen; and go E. by S. 2 or 3 Ls. from it, then you will see on the Larboard-Bow an Island called Godon; go in there, and take a Pilot for Sudmer.

But if you are bound to Romfdale River, go by the Island of Luycke, where you have 10 to 18 Fa. Water in the Fair Way; only mind that when you are past the said Island Luycke, there is a Stone Riffruns cross the Channel almost to the high Head of Horrel; there edge off from the Island that is on your Larboard-side, and run close by the high Head of Horrel,

Sailing Directions for the Coasts of Norway and Cape.

F you are bound about the North Cape, and take your Departure from the North Point of Stadland, it is from thence to the Island Trenough 77 Ls. N.E. by N. quite without all the Islands and Head Lands; and from the taid North Point to the Island Rust it is N.N.E. casterly 92 Ls. Also from the foresaid North Point to the Island Loefort, it is N.N.E. 15 Ls.

To fail from the Stadland to the North Cape it is certainly best to keep without all the said Islands, lest meeting with the Wind at W. or W.N.W. you be embay'd in Drontheim River: but if you are bound from Drontheim to the northward, you have the Momendale Island about 10 Ls. to the northward of Drontheim: and about 12 Ls. N.W. by W. from that are the Islands of Holy Land, and from that about 10 Ls. N.N.W. or N.W. by N. is the Island Trenough; from whence about 15 Ls. northerly are the Islands Rust and Wero; between which and the Loefort is the samous Whirlpool, called by some the Navel of the Sea, and by others the Mael Strom: you may anchor under the West Point of the Loefort, or you may fail all

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Point; there is good anchoring, but not fafe to run in without a Pilot: the same is the Case of all the other Havens and Roads hereabouts, for the Shores are cover'd with innumerable Rocks.

Stemmeshest is the next Point of the Main Land from Boe N.N.E. distance 3 Ls. and lies from the N. Point of Stadland N.E. by N. distance 36 Ls. To fail hither, it is best to keep without in the main Sea, except you are bound for Sudmer or Romsdale. Stemmeshest is a high Point of Land; and if you make it coming from the S.W. out of the Sea, it appears in 2 Hummocks. Turning in by Stemmeshest is the Channel which lies N.E. by E. to Drontheim: I advise all Strangers, and all with great Ships, to take a Pilot here, for the Rocks and dangerous places are not possible to be described.

All the way from Stemmeshest to Drontheim may be called a River or Sound, for it is within a long Riff or Range of Islands, with an endless number of Rocks: It is Pilots work, and it is not possible to give a persect Description; 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 *Domefnost*, and on the Sea Shore, lies a little Island called Swan Islam; you may fail round it, there is upon it a Warder: Under this Island you may anchor, either going to the eastward or westward, in 4 or 5 Fa. clean sandy Ground.

Between Hitteren and Lexe there is a Haven called Deepfound: The Norway Barks coming from the Southward, run in here behind Lexe to go to the Northward.

f Norway and Finmark, from Drontheim to the North Cape.

Cape, and take of Stadland, it 77 Ls. N.E. by Head Lands; Rust it is N.N.E. th Point to the

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along to the North Cape within the Islands; or you may run in at divers places between the Islands of Wertroll Sanies and Tromfound; but thwart of those Islands lie here and there some sunken Rocks, very dangerous for those that are not acquainted therewith; Pilots therefore are very needful all that way.

From Tromfound to Surroy it is N.E. by E. about 16 Ls. At the E. end of the Island 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 several Bays and Roads, where you may anchor upon occasion.

Loppen and Loppen Calf are two small Islands, where is a Channel runs in to the Northward of them between Loppen and Surroy, leaving Loppen on the Starboard-side, and Surroy on the Larboard side; that Sound is called the Suyer Sound; and within it nearer the Land, is another called Sherver Sound, thro' which you may sail S.E. into Alten Bottom; for failing in there you must have a Pilot.

Directions for Sailing on the Coasts of I

Note, In going into Suyer Sound, coming out of the Sea, there are some Rocks called Huyguen's Rocks; they lie about 10 Ls. N.E. by N. from Tromfound, and W.N.W. about 5 Ls. from the West-end of the Surroy. One John Huyguens, a Dutchman, struck upon them in the Year 1595, and hence they are called Huyguen's Rocks, it is suppos'd there are more thereabouts, not yet discover'd.

About 5 Ls. eastward from Surroy lies a finall Island called 711gen, and between them lie many other small Islands or large Rocks; the first is Ship Holm, and further in, to the Southward, is Reef Flolm; you may fail in between Surroy and Jugen on either fide of the faid small Islands: and standing in S.E. or S.E. by E. there is a good Harbour within an Island called Hammerfast; also between Jugen and the Island Maggeroe lies Holmfly; it is a small Island but you may fail round about it: There is on

the N. side of it a in a good River, alfo another Bay o have a good Road

The N. Cape is t and a little to the Stappen; but by ters.

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Sailing Directions for the Coast of Lapland, from the Nor

HE North Kin lies about 11 Ls. E by S. from the North Cape; it is a Point of the main Land: between them appears a great open Sea: From the North Kin to Tannebay is about 11 Ls. E.S.E. a clean Coast, without Rocks or foul Ground; high steep craggy Land. Tannebay is the Mouth of a great deep

River 2 Ls. broad; it goes in at first S. and then parting in two, or rather three parts, the main River turns more to the Westward: if you would go in there, take a Fisherman at Omega for a I lot.

The Point of Matkorf lies a little to the Eastward of Tannebay; but the next place of Note is Ward-Huis S.E. by E. and S.E. about 16 Ls. between, but nearest to Ward-House is a high Hummock upon the high Land like a Castle, by which the Land may be known.

Ward-House is a large Island with 2 or 3 small ones on the N fide of it; but the large one only is inhabited: It is about 21 Miles long, lies a Mile from the Main, with very deep Water between.

There is on each fide the Island N. and S. a deep Bay; they come so near to one another in the middle of the Island, that they almost part it in two; not above a Stone's-cast of Land being between. There is a Castle with a small Town near the Sea fide on the E. fide of the S. Bay: There is good Riding in the S. Bay, but better between the Island and the Main. fasely run quite thro' between the Island and the Main, only run somewhat nearest to the Rock call'd Diesholm, where the Gallows is, because there the Island is foul.

About a Gunshot N. lie the other 2 Islands very near together, not a Mile long, but very high and rocky, with 2 or 3 Rocks by them above Water.

From Ward-house the next Land S.E. is Keger Point, being the N.W. end of Fisher's Island, its distance to Ls. Between them lies a Bay where several Sounds and Rive.s go in, amongst which is the great River Pitfing, commodious for great Ships; there being a good Road a little within the River.

to the Town of I Country.

To fail into th the S. end of Fisher the high Land of I wide; and when y Island Kilduyn and Bay, between Lau. fore the River, ma for it is very difficu

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Kilduyn Island li E.S.E. the Channel times narrower, bu Middle, or nearest tween two Points Laplanders Tents fore them in 12 or it is very deep.

If you would northward, run be end; and being w there the Channel Go on S.E. till you on the E. fide, as Island, anchor und

There is a good from fo high a pla keen the Cask in the the N. fide of it a Bay called Akeford, where you may anchor in a good River, for foutherly and casterly Winds: there is also another Bay on the S.E. side, called Knarwick, where you have a good Road for westerly and northerly Winds.

The N. Cape is the northermost Point of the Island Maggeroe; and a little to the westward of it lies 3 or 4 small Islands called Stappen; but by English Sailors, The Mother and Daugh-

ters.

To the fouthward of the E. Point of Maggeroe there is a good Haven called Keelwick; and a little to the eastward of the S. Point of Maggeroe lies a small Island called Altenfolen: there is a good Road and Shelter for all Winds; you may run thro' Suyer Sound within Surroy, leaving all the Islands, except Idlen and Hammerfust, just on the Larboard side, and run out to Sea again between the North Cape and the North Kin.

, from the North Cape to Tieribieri Point.

to the Town of Kola, which is the largest Town in all that

Country.

To fail into the River Kola, you must go from Laus, or the S. end of Fisher's Island, towards the River S.S.E; run by the high Land of Bodenwolack, and the River will open very wide; and when you are at Laus Point, you may see the Island Kilduyn 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 Pilot, if you would run in, for it is very difficult for a Stranger.

South of the River Kola is the Island of Kilduyn, distance 1. L. between both, but nearer the River than the Island, there is a Harbour call'd Bliefia Salensi. To fail in here, you go by a round reddish Hummock; and when you are within, it edges to the westward, till the Harbour seems shut, so that you cannot see the Sea, and you may anchor in what depth you please; it is all clear, white sandy Ground, but sometimes ouzy and soft: Also you may run a-shore upon the

Ouze, and fave a Ship without Anchor or Cable.

Kilduyn Island lies extended along shore 2 Ls. W.N.W. and E.S.E. the Channel between is about half a L. broad sometimes narrower, but very deep, and clear Ground. About the Middle, or nearest the E. end, is a good Road and a Bay, between two Points lying out toward the Land: There are some Laplanders Tents or Houses there, and you may anchor before them in 12 or 14 Fa. sandy Ground, but towards the S.E. it is very deep.

If you would anchor under Kilduyn, coming from the northward, run between the Island and the Main at the W. end; and being within, you will see a little round Island; there the Channel is narrowest, but broad enough to turn in: Go on S.E. till you come between the two Points, and anchor on the E. side, as before. If you come in at the E. end of the

Island, anchor under the Houses, as before.

There is a good watering Place at Kilduyn; the Water runs from so high a place, and with such a descent, that you may keep the Cask in the Boat, and make the Water run in to sill it.

N. fide of it; but the large one only is inhabited: It is about 21 Miles long, lies a Mile from the Main, with very deep Water between.

There is on each fide the Island N. and S. a deep Bay; they come so near to one another in the middle of the Island, that they almost part it in two; not above a Stone's-cast of Land being between. There is a Castle with a small Town near the Sea side on the E. side of the S. Bay: There is good Riding in the S. Bay, but better between the Island and the Main. You may safely run quite thro' between the Island and the Main, only run somewhat nearest to the Rock call'd Diesholm, where the Gallows is, because there the Island is soul.

About a Gunshot N. lie the other 2 Islands very near together, not a Mile long, but very high and rocky, with 2 or 3

Rocks by them above Water.

From Ward-house the next Land S.E. is Keger Point, being the N.W. end of Fisher's Island, its distance to Ls. Between them lies a Bay where several Sounds and Riversgo in, amongst which is the great River Pitsing, 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. end of Fisher's Island. 1st. Laus on the N. side of the Point. 2d. Trepena at the Point it self. 3d. Kawens on the S. side of it; there is good anchoring in them all: The Island is about 11 Ls. in length, lying N.W. and S.E. If you are obliged to go into any of those Harbours, you would do well to make a Signal to a Fisherman, who will come off and pilot you in.

N. B. There are, 'tis true, no Inhabitants here, (Fishermen or others) in the Winter; but then 'tis also true, that here are no Ships to stand 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 Fisher's Island; a little without the N. Point of the Harbour, lie 2 or 3 Rocks; also in the midst of the Harbour's Mouth is a sunken Rock, leave that and the other Rocks on the Starboard-side, and run by the S. Shore: then edge behind the Rocks, and anchor in or 8 Fa. Here is as good lying as in any Harbour on the Coast of Lapland: The Harbour's Mouth goes in S.W.

N. B. Altho this is commonly call'd Fisher's Island, yet it is not absolutely an Island, being joyned to the main by a Neck of Land: but it is so narrow and low, that the Russians going that way can haul their Boats over it. It is called Fisher's Island, because the Danes used to have their Fish Staples at Keger, upon this Island.

From hence to the River Kola, or Kildnyn Island, is about 9 or 10 I.s. S.S.E. or S.E. by S. The Kola is a large deep River, and is navigable for great Ships far up into the Country

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depth you please; it is all clear, white sandy Ground, but sometimes ouzy and soft: Also you may run a-shore upon the Ouze, and save a Ship without Anchor or Cable.

Kilduyn Island lies extended along shore 2 Ls. W.N.W. and E.S.E. the Channel between is about half a L. broad sometimes narrower, but very deep, and clear Ground. About the Middle, or nearest the E. end, is a good Road and a Bay, between two Points lying out toward the Land: There are some Laplanders Tents or Houses there, and you may anchor before them in 12 or 14 Fa. sandy Ground, but towards the S.E. it is very deep.

If you would anchor under Kilduyn, coming from the northward, run between the Island and the Main at the W. end; and being within, you will see a little round Island; there the Channel is narrowest, but broad enough to turn in: Go on S.E. till you come between the two Points, and anchor on the E. side, as before. If you come in at the E. end of the Island, anchor under the Houles, as before.

There is a good watering Place at Kilduyn; the Water runs from so high a place, and with such a descent, that you may keep the Cask in the Boat, and make the Water run in to sill it. At the E. end of Kilduyn, upon a Point call'd Sacrifice Point, there is a Fishers Village call'd Kammon.

From Kilduyn to Tiry Biry the Course is S.E. distance 6 Ls. between them is a great Bay, in which about a L. from Kilduyn there is a high Island call'd Olier rie: Behind the S. end of it, under the Main, there is a good River that will hold three or sour Ships very well: On the Main is a Hummock higher than the rest, and upon it are two Crosses one above another: To the northward of it is a slat Point, and thwart it lie some Rocks along shore, which are cover'd at high Water; one of them is almost 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 possible; and if none comes off to you, do not venture, but go on for Tiry Biry or Kilduyn, as the Winds present, 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, first South, and afterwards more westerly, the eastmost Point lies out more to Sea than the other, and makes a Bay to the eastward 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 spreads into a broad Sound within. In this Sound, as also in the River of *Tiry Biry*, there is good Salmon fishing: This Bay is clean and good auchoring. There are three little Islands without the Mouth of the Harbour, but the Road is within them.

To the eastward of Tiry Biry 4 or 5 Ls. is a Tide Harbour call'd Gabriel: You may go over on Foot at low Water, but it rises 12 Foot on the Flood: There are three little Islands in the Harbour's Mouth, the highest on the S. side, and the two lowest on the N. side. When you Sail in, run nearest the

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where you have 7 or 8 Fa. clear Ground.

About a League to the fouthward of Gabriel, or farther, is Salensi: There is a great Indraught between Gabriel and Salensi, and the Sound runs almost two Ls. into the Land: 'Tis large enough for 500 Ships to anchorin, and all over good Ground. A little to the northward of it lie some high Rocks, you may fail round them all, but no anchoring: Salensi is a since broad Bay, there are three Islands just before it of a grey Colour, as is also the main; at the Point of the Bay are three great Warders, and a little to the southward on the main Land a steep Hill. This Bay is easily known by these Marks. If you would go into the Bay, the Fishermen are all Pilots.

The Island Daelna Olinie is 2 Ls. to the southward of Sa-Jensi; 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 greatest burden. The Fishermen here also will pilot you in if there

be Occasion.

There are three little black Islands between Olinie and Salensi; there is a good Road under them in 6 or 8 Fa. About 5 Ls. to the castward of Olinie is a fair Harbour call'd Rinds. There are four little Islands before it, and within or behind them you may anchor, but take a Pilot there also, because the Harbour is behind the Islands.

If you come from Olinie, and intend for Rinde Harbour, run clear along shore, to get right off the Islands; for the Land

is so high, that in the Offing it appears above them.

A little to the fouthward of Rinde is a very great Bay: There are two little high Islands before it, and upon the northermost is a great Cross; you may sail in on either side of the Islands, or between them, and anchor in 5 to 15 Fa. sheltered from all Winds; only when it blows hard, and right upon the Shore, there comes in a rolling Sea, but nothing that can hurt you. Between Rinde and this Harbour there lies a long low Island close to the Shore; but you may sail between it and the main Land, without any danger; and from this Island to the Seven Islands is 4 Ls.

A little to the northward of the Seven Islands there is a fair fundy Bay call'd Golden Eay: It is well enough for foutherly

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Sailing Directions from Cape Swetenaes to Ar

Ithin the Point of Swetenaes goes in the River Jockena; and in the Entrance of it are Six Islands, five of which lie along the Shore in the space of about 2 Ls. and the sixth within the sisth or southmost: The three northermost lie near together, as also the three southermost. The northermost of those Islands lie due W. from the Cape. Within the southermost there is a good Road, in 5 or 6 Fa. The Cape is a low slat Ground: To the westward of it, and within (or to the southward of) those Islands, goes in the River Jockena. You have no less than four several Channels, by which you

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Winds, but it is very bad lying here with a NE. Wind, for it

blows right in: You may anchor from 12 to 20 Fa.

The Seven Islands lie along shore in a Line, N.W. by N. and S.E. by S. The first or northmost is the greatest, that and the three next follow close upon one another, about a Mile from the Land: You may fail between them and the Land,

but not within the fifth, which lies too near the Land; the two last lie a good way to the fouthward of the fifth; you may fail within them, you may also run between any of them except the second and third.

Between the northermost of the Seven Islands and the main Land, there is a little Rock; you may anchor to the southward of it, in 4 to 7 Fa. plain landy Ground: You may also anchor under the S. Point of the First Island, with an

Anchor to Sea and a Hauler a-shore, in 19 Fa. pretty well out of the Tide.

Upon the main Land, against the N. Point of the northmost Island, are several Laplanders little Houses, but none upon

the Islands.

To the E. of the Seven Islands 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 Sea.

About 6 Ls. fouthward from the Skipper is Roake Oftro, or Navel Island; it is a high Island 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 Shelter for all Winds.

Eight Ls. to the castward from the Skipper lies the Black Point; the Land is high within it, but towards the Point it grows low like Swetenaes. From this to the eastward the Land is all very low.

From Black Point the Course is S.E. by E. to Evankriest, distance 4 Ls. This Point has many Crosses upon it, and under it is a good Road for southerly Winds.

From *Evankrieft* to *Kletun* it is 3 or 4 Ls. S.E. Here also are several Crosses, and here is a good Road for southerly Winds. From *Kletun* to the Point of Swetenaes, or the River Jockena, it is 2 Ls. S.S.E. a clean Strand and steep Shore.

Swetenaes to Archangel, and the White Sea.

N. of Orlogeness to 9 Ls. S. of it. There is a good Channel of 4 Ls. broad, and 25 to 30 Fa. Water, on the W. side of Knock John, all along the Lapland Shore, and about 2 Ls. from the Land.

In this Channel, and at *Ponnoy*, there are very strong Tides, ebbing and flowing at Spring-Tides 18 Foot. From *Ponnoy* to *Crofs Island* the Course is S.W. by S. distance 9 Ls. You may anchor all along this Course in 8 or 9 Fa. and stop at Tides, tho they run very strong here.

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Between the fourth and fifth Island is a pretty good Channel: If at going in, to the fourthward you meet with a N.E. by E. or S.E. Wind, you may anchor behind Swetenaes Point, it is good clean Ground from Swetenaes to Lombascho, the Course

is S.S.E. distance 12 Ls.

You may anchor under Lombascho, but there is no good riding, for there is foul Ground and a foul Sea: The best anchoring is between Lombascho Point and the southermost Island. Lombascho may be known by five Islands that lie along the Coast to the northward of the Point.

From Lombascho to Orlogeness the Course is S.S.E. and S. by E. distance 11 Ls. The Coast is clean and steep, but there is no Road to anchor in between them: Indeed in good Weather, if you meet with contrary Winds, you may anchor at Sea in 25 to 30 Fa. to stop for the Tide; for in the Passage into the White Sea, the Flood Tide sets strong, in or out.

There is a Stone Rist runs out from Or logeness Point, about a Gun-shot into the Sea; it is so shallow, that it is a great part dry at low Water; take care to keep without it to the southward. Or logeness is known to the Seamen by the Name of the Three Islands: Two of them are about 2 Ls. and a half to the southward of Orlogeness, and the other about 2 Ls. and a half to the southward of the first two: And about half a L. to the southward of the southermost of the said Three Islands, is the River Ponney.

Thwart *Ponnoy* is the narrowest of the Passage into the White Sea; in the Middle of which, about 3 or 4 Ls. from the Shore, is a Sand or Shoal call'd Knock John, very rough and stony; and in some Places, particularly off of Orlogeness and the Three Islands, it is dry at low Water; it stretches N. and S. near 30 Ls. in length, viz. from thwart of Swetenaes Point to the southward of Ponnoy: But the worst Shoal, and most dangerous part is about 16 Ls. in length, viz. from about 7 Ls.

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N. of Orlogeness to 9 Ls. S. of it. There is a good Channel of 4 Ls. broad, and 25 to 30 Fa. Water, on the W. side of Knock John, all along the Lapland Shore, and about 2 Ls. from the Land.

In this Channel, and at *Ponnoy*, there are very strong Tides, ebbing and flowing at Spring-Tides 18 Foot. From *Ponnoy* to *Cross Island* the Course is S.W. by S. distance 9 Ls. You may anchor all along this Course in 8 or 9 Fa. and stop at Tides, tho they run very strong here.

There is a Point between Ponnoy and Cross Island, with three Crosses upon it; for which Reason it is sometimes taken for Cross Island: But Cross Island is much bigger; also it hath two Crosses at the N. end, and at the S. three; by which it may be known from the other.

You may fail behind *Crofs Island*, or anchor there in 6 or 7 Fa. all good clean Ground; but the best anchoring is with the great Crofs E.N.E.

From Ponnoy River S.E. and S.E. by S. about 9 or 10 Ls. is the Mefense be Gulph, into which a great River runs that comes from Colmagro. There is in the Mouth of this Gulph a little Island, on the N. side of which you may anchor upon occasion. At the S. part of this Gulph it is low Land, all grown with Trees; here you may anchor close by the Shore all along in clean Sand, from thence to Catsuose or Grey Point.

From Cross Island to Catsuose is about 20 Ls. S.W. You may anchor under Catsuose 'Point; and on the W. side of it in 7 to 10 Fa. good lying with easterly Winds, but the Ground is not very good: And from hence to the Bar of Archangel the Course is S. or S. by W. distance 13 Ls. This is the Entrance into the River Dwina. In this Course you first see Land to the westward of St. Nicholas, full of Trees, which at first sight, in a clear Day, appear as if they grew in the Sea. Sailing on to the southward you see more Land, to the eastward of that you saw first. Asterwards you will see St. Nicholas's Steeple; 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 off to you to bring you in.

N. B. All the Surveys to the eastward of the White Sea, or to the northward, to the Isle or Land (for we know not yet which it is) of Nova Zembla, are so uncertain, and some of them so evidently sictitious, that we cannot think it worth while to follow them, or copy any thing from them. The Trading World waits with some impatience for a perfect Survey of what is known upon that Coast, and for a more full Discovery of what is not.

Sailing

Sailing Directions for the Coast of France, from Dun onne in the Bay of Biscay, and forward to Fonta clusive.



HEN you come from the Flemish Coast within the Banks, as has been already directed, that is, thro' Il oolbreach Sound at the end of the Brakes, which are the other Banks before Dunkirk, and from thence Westward, then you come against the West

Point of Gravelin Sand, running out into the Sea: To the Eastward of the Sand is a Channel into Gravelin, directed by the Light-houles.

As to Dunkirk, the Harbour being demolished since the former Survey, there is no giving Directions for going into that Port by the old Marks; it must therefore be referr'd to the Pilots, till a new Survey of that Haven be made publick.

The Flemish Banks, of which some Account is given in the Directions for that Coast, come on this way also: the Westermost 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 Rusting almost parallel, lying N.E. by N. 5 Ls. Between them is a Channel very wide and deep, having 20 to 24 Fa. The third also, called the Dike, reaches the length of the Sand called the Cliff, and lies N. E. and the fourth, called the Rattle Bank, lies in the fame manner N.E. by E. and has 4 to 5 Fa. upon it, and 18 Fa. close by it.

Between this last and the Bree or Broad Bank, lies a Channel of 18 to 19 Fa. and here, as among all or most of the rest, Ships knowing the Marks, or with skilful Pilots, may turn to Windward between the Banks either up or down, and also an-

chor and ride almost where they will.

For the going into Calais, I refer to the Pilots; for Strangers here make a Waaff for a Pilot; fo I go on with the Coast. W. of Calais lies a foul Point called Blackness, distance 4 Ls. 'tis foul, because the Shore is full of Rocks almost all the way. From thence to the Mouth of the River Lianne at Boulogne, the Land trends to the S. distance 3 Ls. making a Bay or Bight, which we call Boulogue, or Bullen Bay: here is good anchoring, shelter'd from easterly Winds in 5 to 15 Fa. clean hard Sand: they call it St. John's Road; but to the northward of the Village the Ground is foul and stony.

S. of St. John's Road off of Ambletense, begins a narrow Riff, called the Ballare, 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 Estaples, 4 Ls. from the Shore, is another Shoal called the Vergoy, having but 4 Fa. and N.W. from the Mouth of the River lie two other Sands distance 4 Ls. the northermost called Le Batteur, and the southermost Le Quemeur; there is 8 to 9 Fa. at least upon them: and farther S. another called the Baffurelle, on the middle of which is but 2 Fa. Water.

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To the fouthward of the Cape are two high sharp Rocke but they are plain above Water. From hence to the Segue Head is the same Course exactly, distance 4 Ls. 7.

N.W. from the Seynebead almost a Leag. lies a Bank with but 2 \(\frac{1}{2}\) Fa. bring New Haven without Seynebead, then you are just thwart it; but anchor within the first Mill, and stay there for a Pilot to go into New Haven. If you are bound to Havre, or up the River Seyne to Candebee, or to the City of Roan, you must take a Pilot at New Haven.

S.W. or S.W. by S. from the Seynehead is the Entrance into Caen, distance about 2 Ls. lying on the River Orne: There are several Banks lying off 6 to 7 Ls. to Sea; you may go on either side of them, but the E. side is the best, which carries you into the Fosse 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 ½ Ls. S. from the Cape lies La Hogue Point: there is good anchoring in a Bay to the S. of the Point, fafe from westerly and northerly Winds, and in 7 to 9 Fa. the Point bearing N.W. by N. and N.N.W. but shun the W. Shore of the Bay, unless well acquainted there.

The Idands of St. Marques lie off here S.E. from the Hogue Point, distance 7 Miles; they are foul, and have some Shoals on each side of them, so that 'tis safest to keep off. The Shore also from the Hogue Point is rocky and foul, particularly off of Draaguet and Caperon Points; give therefore the Shore a good Birth, at least a League, then you will go without all, except a sunk Rock, which lies near 5 Miles off Shore.

From Cape Barfleur W. and by S. distance 5 Ls. is Cherburg, a little Tide Haven. There are some soul Grounds in the way, W. of the Cape; but keep the high Land of Cherburg without Cape de Wyck, it carries you without them all. To the W. of Cherburg is another Tide Haven called Foss de Omonville: there are some Rocks lie before Cherburg, and on both sides this Haven. If you would go in, take a Pilot. It lies 2 Ls. E. of Cape La Hogue.

Due W. from Cape la Hogue distance 3 Ls. lies the Isle of Alderney: between the Island and the Cape runs the famous Channel, called The Race of Alderney, by the French the Race de Blanchart; the Island stretches in length about 4 English Miles E. and W. the W. end is foul, having several little Islands close to it, and to the eastward lies a Bank of Sand distance 1 Leag. at the W. end are several Rocks, within a Mile from the Island. Being past the W. end, you may go away for Jersey with safety.

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Upon the N. Point of the River Lianne, is a high large Tower nam'd La Tower d' Order, near a Village called La Poterie: the English 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 Wa-

ter on it.

On the S. Point of the River is a large Beacon on a Stone Wall; thwart of that Point is a Riff very shoal; run close aboard the new Head or Pier, and you shun the Shoal.

logue is a Tide-Haven, and needs no Pilot.

From the Old Man to St. Vallery is 11 Ls. S.W. Between them lie Estaples and Montstrevil upon the little River Canche, which is not fit for great Vessels. To go up the River Canche to Etaples, you must 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 shoal Water from the Mouth of the River 3 or 4 Ls. into the Sea, from 5 to 10 Fa. The Shore is known by the shoaling.

From the Somme to Diep the Coast lies S.W. distance 7 Ls. the River Breefle lies between them, with the dry Harbour of Treport, fit only for small Vessels; also the River Saart short of Triep 2 Ls. The Rivers Argues and Seye come into the Sea at Diep; and the Town lies along the Shore between them open to the Sea; the Haven goes far in within the Town

it felf, and Pilots are always ready to carry you in.

St. Vallery in Caux, to distinguish it from the other St. Val-Lery, lies from Diep W.S.W. distance 5 Ls. 'tis a small Tide Haven, and a strait Channel, but safe when you are in; there are Pilots always at hand. On the same Course is Fecam distance 4 Ls. a Tide Haven, but deep, 2 Fa. at low Water: there also you must rake a Pilot, because of a Bank at the Harbour's Mouth. Hence to Cape de Caux is W.S.W. westerly distance 3 Ls.

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From Cape Barfleur W. and by S. distance 5 Ls. is Cherburg, a little Tide Haven. There are some soul Grounds in the way, W. of the Cape; but keep the high Land of Cherburg without Cape de Wyck, it carries you without them all. To the W. of Cherburg is another Tide Haven called Foss de Omonville: there are some Rocks lie before Cherburg, and on both sides this Haven. If you would go in, take a Pilot. It lies 2 Ls. E. of Cape La Hogue.

Due W. from Cape la Hogue distance 3 Ls. lies the Isle of Alderney: between the Island and the Cape runs the samous Channel, called The Race of Alderney, by the French the Race de Blanchart; the Island stretches in length about 4 English Miles E. and W. the W. end is soul, having several little Islands close to it, and to the eastward lies a Bank of Sand distance 1 Leag. at the W. end are several Rocks, within a Mile from the Island. Being past the W. end, you may go away for Tersey with safety.

The Rocks at the W. end of Alderney run out into the Sea W. by N. and W.N.W. for near 4 Ls. the outmost is very high, with smaller Rocks about it. In the mid-way between this and the Island lies another as great, but not so high. Most of these Rocks are dry at low Water, but cover'd upon the Flood. These Rocks are called the Gasketts, but by our Sailors the Casketts: and between them and the Island lie other Rocks call'd the Barroches, in two great Ranges stretching wide of the first.

Cape Barfleur is a high Point; near it, upon lower Ground, is a flat large Tower with two Windmills and fome low Houles: and upon Cape la Hogue is a Castle with a Tower on it, a little to the castward; and within the Land stands a high Spire Steeple, and at Cherburg is a square Tower Steeple.

The Island of Guernsey lies S.W. from Alderney distance 6 Ls. and from the Gasketts S.W. by S. 7 Ls. To anchor under Guernsey, you must run to the N.E. Point, so far E. as to ride in sight of the Castle, which is upon a Rock on that side of the Island; bring that over the S. Point, and run in between the little Islands of Arm or Harm and the Castle; without the Castle is 12 to 13 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 higher than in *England*: It flows at *Cape la Hogue* no less than 6 to 7 Fa.

If you would anchor in other Parts of the Island, you would do well to take a Pilot, for there are fafe Roads every where, tho differing as the Winds may blow.

S.S.W. from Guernsey, distance 7 Ls. lies a great Ledge of Rocks above a L. in length, called the Rock Dove: E. by S. from the Rock Dove lies a Rock called Le Barrne, 'tis under Water at the top of the Tide, and therefore very dangerous.

Ε

E. from Guernfey lies the Island of Sark: you may anchor any where about it in 25 to 27 Fa. The N. and S. ends are foul, several Rocks lying at those Points, some above, some under Water. Between Sark and Guernsey lie the Islands Ask, and Arm or Harm, you may go between them all.

Abundance of Rocks take up all these Parts about Guernsey.

As, 1. Certain Rocks 4 Miles W. of Guernsey; they lie 4 Miles in length; the southermost are the biggest, called the Gross Hannoveaux, then lessening towards the middle they are called only the Hannoveaux: at the north end they lie all under Water, and are not seen at all, which makes them the more dangerous; Ships are often lost upon them. 2. East from the N.E. end of Guernsey distance 1 L. lie the Amphroques, and a Mile nearer the Point lie the Brayes, and another called the Sambue: in a word, Guernsey is surrounded with Rocks and Dangers, and no one should come near, that is not well acquainted with them, without a Pilot.

Hogue S.W. by W. distance 6 Ls. surrounded with Rocks also, like the others; yet there are very good Roads and Anchoring-places all round it, especially to the N. side: But Pilots are

eafily to be had; so the Description is of no use.

Terfey bears with St. Maloes S. by E. and N. by W. distance 8 Ls. In the Fair Way lie a Cluster of high Rocks so close, that they are altogether 7 to 8 Miles in compass; they are called the Mankiers, or the Grelets Banks, most of them under Water: None should go this way without a Pilot.

They who fail thro' the Race of Blanchart or Alderney, bound to St. Maloes, run commonly between Sark and Jerfiv: there is indeed another Passage to the eastward of all the Shoals: but this also is Pilots work, who know all the Channels so exactly, that there is no need for the Mariner to look

into any Charts, or be at any pains about them.

St. Germains is a Port on the Main E. by S. from the Island of Jerfey, distance 3! Ls. there are several Rocks lie between, especially to the northward, but the Pilots direct the Sailors

better than their Books.

Cranville lies due S. of St. Germain distance 6 Ls. 'tis a Tide Haven, and dry at low Water: it lies on the S. fide of a great Point of Land, from whence begins the Bay of Auranches. It would be endlefs to describe the numberless Rocks, Shoals and Islands in this part of the Coast; even the latest and most exact Surveys do not do it, but only name the chief and most dangerous, referring to the Pilots; feeing no Ships, no not their own Coasters, venture thro' the Race of Alderney, and then by Jerfey and Guernsey, to the southward, or even into this Bay, without them. All along this Coast, between Cape Le Hogue and Granville, you see upon the Shore a great many little Houses, Mills and Trees for Sea Marks; and indeed there is occasion enough, for it is a dreadful Coast almost the whole length of the Province of Bretagne; yet there is good anchoring in 6 or 7 Fa. Water, in the Road before St. Germain, and likewise on the N. side of Granville; and so there is all along from Cape Le Hogue.

for Sailing on the Coasts of France.

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tie off from the Point about 2 Miles, and within them is another great Rock always icen above Water, call'd *Grand Pierre*, and within that many other Rocks, fome under, fome above Water: which I mention to confirm what is fo often repeated, that none ought to venture in these Parts without Assistance.

From these Rocks, off of Concale Point, distance 3 Ls. lies the Entrance into St. Malo, the Course W. or W. by S. Before the Haven of St. Malo lies the Island Sisember, or Cesambre, on which stands a Church and a Windmill; by which Marks the Entrance is known at a great distance. This Entrance has so many Islands, Rocks and Shoals in it, that it would be tedious to describe them, especially seeing no body goes in among them without taking Pilots, except on the greatest Ex. gences, and even Distress.

N. B. The Ships ride here within the Town, where they lie moor'd with 4 Cables, 2 off in the Sand, and 2 fast to the Wharfs in the Town. N. B. It flows here with an ordinary Tide 7 Fa. right up and down.

There are several Channels into St. Malo, nor can it be otherwise, considering the Situation, and the many Islands in the Bay: it is enough to hint this, that the Stranger may be sure to take a Pilot, and not venture upon his own Observation.

W. from St. Malo, distance 2 Ls. is a deep sandy Bay, 'tis an excellent Harbour, where there is good Riding secure from all Winds; you ride under a great Rock against a Windmill with Trees about it: and 2 Ls. N.W. from the Bay is Cape Frebel, or Farel, or de Late, for it goes by all those Names.

From Cape Frebel the Coast lies N.W. by W. to the Island Briack, or Brebat, dist. 8 Ls. and 2 Ls. from that Cape W. lie the Robinets, a Ledge of dry Rocks. Between the Cape and the Island of Brebat is the Haven of Brien, on a River of the same name, and at the bottom of a small Bay called also the Bay of Brien. Here lie abundance of Rocks, so that there is no stirring any way without a Pilot: they stretch along from Point d'Herqui to the very Harbour of Brebat; take a Pilot for any of the small places in the Bay, such as Verdonlette, Ilion, the Noiras, St. Quae, Plempoule, Quemenos, &c. all within the Bay. The principal Rocks known in this dangerous Bay are, the

Hergui, Pele, Barbottes. Robiens, Lejou, Chartiers, Robinettes, Bouvillons, Courtois Bank of Contesse, Long Rock, Garvo, [Rocks. Calmardier, Sablonier, Lobrasses, Horraine, Meumoire, Eschaudes.

Besides an infinite number of Rocks and Ledges of Rocks which are under Water, or have no Name.

N.W. from *Brebat* lie also several Rocks, and 4 rocky I-flands, such as *Tusclet*, St. Maad, Daren and Zearne, 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 *Brebat*, and almost 1 L. from the Shore, been Shoal of Rocks called the Heaven, and

of Jersey, distance 3 ! Ls. there are several Rocks lie between, especially to the northward, but the Pilots direct the Sailors

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Cranville lies due S. of St. Germain distance 6 Ls. 'tis a Tide Haven, and dry at low Water: it lies on the S. fide of a great Point of Land, from whence begins the Bay of Auranches. It would be endless to describe the numberless Rocks, Shoals and Itlands in this part of the Coast; even the latest and most exact Surveys do not do it, but only name the chief and most dangerous, referring to the Pilors; feeing no Ships, no not their own Coasters, venture thro' the Race of Alderney, and then by Forfey and Guernsey, to the fouthward, or even into this Bay, without them. All along this Coast, between Cape Le Hogue and Granville, you fee upon the Shore a great many little Houles, Mills and Trees for Sea Marks; and indeed there is occasion enough, for it is a dreadful Coast almost the whole length of the Province of Bretagne; yet there is good anchoring in 6 or 7 Fa. Water, in the Road before St. Germain, and likewise on the N. side of Granville; and so there is all along from Cape Le Hogue.

S. from Granville Point lie some small Rocks, which guide you into the Pier or Harbour; and W by N. distance 2 Ls. lie a long Ledge of Rocks, called the Island Chause, or De Chose: They that are bound along the Coast, go between them and Granville Point. There are many other Shoals and Rocks in the Fair Way, but the Pilots take the Charge of them; 'tis enough to say, that in steering this Course from the Race of Blanchart to Cartaret Point, you are to keep at a L. or 1 ½ L. from the Shore: then steering more westerly between the Bank de Feloe, Pel Bank and Grune Bank, when you are past there, go away S. a little easterly, and pass between some high Ledges of Rocks called Eckrenoue or Escrevere, and others called Falchanks, which will lead you between a great Rock

called Le Beuff, and the Shore of St. Germain.

S.W. by W. from Granville is Concale Point, distance 4 Ls. between them goes in the Bay of Auranches, called so from the River Auranche which runs into it. Thwart the Mouth of the River is a small Island, and within that a Hill called Mount St. Michael, with a Cassle and a high Tower upon it, a good Sca-mark, and seen far out of the Bay: The Ground is so uncertain in this Bay, that you have sometimes from 1 to 13 Fa. in a small compass; and the Sea ebbs so far out, that sometimes from the Strand you cannot see the Water; so that 'tis a very doubtful Place.

If you would go into this River, or into any part of the Bay, you must take a Pilot, for no Stranger can go sase: the like also is your case at the Entrance at the Town of Concale, for under that Point, and even just before the Harbour, are abundance of Rocks, and some very dangerous.

In this Bay is the Town of Pontor fon, 2 Ls. within the Mouth of the River, where is also a Tide Haven, and you must make use 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

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W. of Brehat distance 2 ½ Ls. is the River Treguire; the Channel goes in on the E. side of a little Island called Er: if you are to go in there, you must take a Polet also, for 'tis all disticult. Farther W. 3 ½ Ls. lie the Area Islands, known by that name; and S. by E. from them distance 1 ½ L. is Green Island; you may pass betwixt this and the Seven Islands, but not between any of the Seven: Thwart the eastermost of the Seven Islands lies a Ledge of Rocks, and on the southermost end one higher than the rest, always above Water. Opposite to these Rocks on the Shore is the Church La Clarte, with a high Steeple, which is the Mark to know the Seven Islands.

W. of the Seven Islands distance 2 Ls. lie the Treacle Pots, being several Rocks upon a Shoal; they stretch E.N.E. and W. S.W. in length 4 Miles, and it is a very dangerous place; for they are so steep, that within half a Mile of the Rocks there is 60 Fa. Likewise by another Rock called La Presse, 4 Miles sarther W. a little northerly, there is 28 Fa. clote to be. But these Rocks and Deeps are so many, that no Stranger can sail into any Haven along this Shore without a skilful Pilot.

W. from the Seven Islands is the Haver of Lanion, or Lanieur, distance 3 Ls. and 2 Ls. with a River. The whole Coast on both sides the Seven Islands is full of Islands; we need only name them, because they are so near the Shore, that they are Guides and Marks to one another: they are,

1. Morville; 5. Gato; 15. Le Taureau;
2. Pomme; 6. Brusle, or 11. Lau Grand;
3. Le Blanch, or the Burnt Island; 12. Le Grand TauWhite Island; 7. Rabenio; reau,
4. St. Saneveure; 8. Molene; and many others.

Befides

Directions for Sailing on the Coasts of

Besides these there are several Rocks which lie off towards the Seven Islands always above Water; and without all, 2 Miles from the Main, lie the Marten and the Menandrenee, Rocks which are dry only at low Ebbs. It is well for the Sailors that here is no trading Port on the Main, so these Islands and Rocks however dangerous, are in no body's way.

Those Ships which come from the E. should go S.W. by W. and S.S.W. thro' the Channel between the Green Island and Seven Islands, till the Church of La Clarte bears full S. and then sheer W. or W. a little southerly, which carries them into the Fair Way between the Marteene and the Triagons. If they are bound into the Bay to Morlain or any other Port thereabout, let them take a Pilot; nor could they with Prudence venture without one, tho we should describe all the Islands and Rocks which lie on the Coast with the utmost exactness. The Entrance into Morlain, as also into St. Paul de Leon, or St. John de Doit, or Lanion, and several other smaller places, are all throng'd with Rocks, which no Man that is unacquainted with can discover or avoid without Direction upon the Spot.

The long ragged Rocks of *Morlaix* in particular, spread the Coast from the Island *Bass* for 3 or 4 Miles E. by S. and E.S.E.

and are very dangerous.

If you are bound westward, either from Morlaix or any of the Places in the Bay, or from Cape Brehat, the best Course, especially for one not well acquainted, is to keep a good Offing, and go without all these Islands, Rocks and Shoals, 3 or 4 Leagues from the Shore, more or less, as you see Occasion; then you may fail by the help of the Charts, and not call for a Pilot, till you are off of the Port you are bound to.

St. Paul de Leon lies in the Bottom of a large Gulph on the W. side of the Channel of Morlaix: On the E. side of the Entrance is the Island Callot, and a Town of the same Name at the Point of the Gulph; and the whole Gulph is full of

Rocks and finall Islands.

The Isle of Bass bears N.W. from the Mouth of the Gulph of St. Paul, opposite to the Point of Ross Goss, and distant from the Seven Islands 8 Ls. S.W. by S. from the Bass is the Haven of Plougoulin, distance 4 Miles; 'tis a little Tide-Haven: But the Entrance is as it were block'd up with Rocks and Shoals, as most of the Havens on this Coast are.

Farther W. the Coast now turning westward, is Guiceny, in a large Bay, and at the Mouth of a small River, distance from the Bass 6 Ls. The Shore is all full of Rocks and Islands for 2 Ls. W. of this Port; to run in here we must refer you to the Pilots. The Shoalings also in this Bay are very uncertain

from 2 to 10 Fa.

Albernehe, or Abbrernach, is the next Haven W. distance 2 Ls. There are three Channels into it; the westermost is le Grand Chenal: The middlemost is le Chenal de la Pendante: The eastermost is le Chenal de Maloins. They are very good Channels to those that are well acquainted, but all among the Rocks and Islands, as the rest are, and impracticable for Strangers but with skilful Assistance, till you come to the west-ward of Portsal, when you have a clean Coast except the Shoal off of Portsal, or the Sall Haven: this Shoal is called

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If you are l nals, and Pilot Point is a god or the *Moins* At the Island Brehat in the Bay of St. Brieu, the Flood sets S.E. and in the Fair Way E.S.E. and an E. Moon makes full Sea.

Between that and Guernsey a W.S.W. Moon: The Flood there fets E.S.E. and the Ebb W.N.W.

On the Coast within the Gaskets, the Tide sets always a-gainst the Sun, so that it is never still Water.

Between Guernsey and the Seven Islands, a W.S.W. Moon:

At Brehat ditto, E. by N.

At Morlaix and St. Paul de Leon W. by S. At the Island the Bass, a W. by S. Moon.

In the Offing, the Flood fets E.N.E. the Ebb W.S.W. And fo on all the Coast to Usbant.

At V/hant full Sea at a W. Moon.

Depths of the Water on the Coast of France.

Between Guernsey and the Gaskets is 35 to 40 Fa.

Between Alderney and Jersey 25 Fa.

In the Fair Way of Fersey and Brebat 20, 25 to 30 Fa. About the Seven Islands, and all along the Coast, 45 to 50 Fa. Come no nearer those Seven Islands in the Night, than 40 to

45 Fa.
Seven Ls. N.W. from Guernsey is a Hole 80 to 90 Fa.

Thwart of the Bass Point 5 Ls. off, is 35 to 40 Fa. Off of Vshant 2 Ls. is 48 to 50 Fa.

Notwithstanding all the Directions that have been given for the Coast of France, it is almost all along so full of Islands, Rocks, and broken Ground, especially about the Race of Alderney, and the Islands of Guernsey and Jersey; and also about the Seven Islands, and the Treacle Pots (or Triagons) there are such strong Indraughts, Whirlings, and Riplings of the Tide, that it requires great Care in sailing among them (especially in the Night, or thick Water:) Also the Setting of the Tide (whether Flood or Ebb) should be duly allowed for, to prevent being brought into the Dangers which abound on this Coast.

From Ofhant S.E. towards Conquet Bay, or Point St. Matthew, are fix small Islands lying in the same Point one from another: They are, 1. Molene. 2. Quemenes. 3. Beneguette. 4. Belance. 5. Banette. 6. Aux Chestiennes. The French Maps name them thus: 1. Bannie. 2. Balance. 3. Molenne. 4. Triguelin. 5. Chrestienns. 6. Quemenes.

If you come from the N and cannot weather *Ulhart*, you may run between it and these Islands; 'tis a good Channel,

and has 6 to 7 Fa. at low Water.

Point Vintiers is to the fouthward of all these Rocks, but come not too near it, because of several sunk Rocks which you cannot go within. When the southermost Houses 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 usual Signals, and Pilots will come off to you. Under St. Matthew's Point is a good Road between the Fenestiers and the Point, or the Mouns Blanch, or White Monks: There are some

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South of these lies the Harbour of Aberilane, distance 2 Ls. and lying upon the Shore of the Passage du Four, so call'd from a Ledge of Rocks which lie off in the Sea call'd le Fours, about a L from the Main; and this is the Channel between.

West from this Haven, distance 4 Ls. lies the Isle of Ushant, or Ovessant: On the N. Coast of the Island is the Bay of Beninon, or St. Michael, which is clean and deep, and a good Road; at the N.E. end of the Island, with 10 to 14 Fa. Water, also a deep Bay at the S.W. end, with 25 Fa. at the Entrance, shoaling gradually to the dry Strand.

This Passage du Four is the Fair Way to all the western Coasts of France; and the NW. Point of the little Island de Quelerne, which lies upon the N. end of the Island of Oshant, is the samous Cape Oshant. Some will have the N.W. Point of the main Island be the Cape, but Antiquity says otherwise. This is the Cape, of which its a known Rule in navigating these Seas, that Cape Oshant and Cape Ortegal make the Bay of Biscay, and Cape Oshant and Cape Cornwal make the English Channel.

Of the Tides.

At Cape de la Hague, by the Shore, a S. by E. Moon makes full Sea.

In the Race of Alderney, or Blanchart, N. by E.

N. B. The Flood fets thro? the Race N.E. the Ebb S.W.

In all the Islands N. by E.

The Tides are uncertain, and fet feveral ways, but ordinarily N.E. and N.E. by N.

At Concale and Granville W.N.W.

At St. Malo E. The Flood fets in at the W. Channel, and out at the E. Channel.

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(especially in the Night, or thick Water:) Also the Setting of the Tide (whether Flood or Ebb) should be duly allow'd for, to prevent being brought into the Dangers which abound on this Coast.

From Ofhant S.E. towards Conquet Bay, or Point St. Matthew, are fix small Islands lying in the same Point one from another: They are, 1. Molene. 2. Quemenes. 3. Beneguette. 4. Belance. 5. Banette. 6. Aux Chestiennes. The French Maps name them thus: 1. Bannic. 2. Balance. 3. Molenne. 4. Triguelin. 5. Chrestienns. 6. Quemenes.

If you come from the N and cannot weather *Ulhart*, you may run between it and these Islands; 'tis a good Channel,

and has 6 to 7 Fa. at low Water.

Point Vintiers is to the fouthward of all these Rocks, but come not too near it, because of several sunk Rocks which you cannot go within. When the southermost Houses of Conquet Town, appear without the Point, then the Vintier Rocks are on your W. side, or W. by S.

If you are bound into Conquet Haven, make the usual Signals, and Pilots will come off to you. Under St. Marthew's Point is a good Road between the Fenefliers and the Point, or the Moins Blanch, or White Monks: There are some Shoals to be avoided, call'd the Loquejou Banks; to shun them run right with the White Monks, till St. Matthew's

bears E.S.E. from you.

N. B. To the E. of St. Matthew's Point, within half Gunshot from the Shore, lies a funk Rock call'd le Cocq; 'tis very dangerous, and ought to be known as much as possible, that it may be avoided, being directly in the coasting Fair Way to Brest.

From St. Matthew's Point you go directly into Brest Water, the largest and best Harbour in France: The Course from St. Matthew's is E.S.E. within the Cocq; but the Entrance into the Course within the Water of Brest, as it requires a Pilot, so I refer it to them.

N. B. The Flood rifes in Brest Harbour 3 Fa. right up and down.

Bertram's Bay is in the Course to Brest, lying E. from St. Matthew's Point, and is a very good Road for a N.E. Wind; you ride there easy and safe in 10 to 11 Fa. at low Water; and on the other side, over-against the Bay S.E. distance 4 Ls. lies Dovarnenez, or Pol David, a large Bay; and within it are several good anchoring Places, as at Crodon within the N. Point, and Burce within the S. There lie several dangerous Rocks between those Bays, which the Pilots will direct you to avoid.

S. half E. from Point St. Matthew's, lies Bee du Ras, distance 5 ± Ls. but there are a great many dangerous Rocks in the way, especially the Porguet, the Geovant, the Vandre, and the Bas du Lis: They lie almost in a Line, and near the Fair Way, but not directly in it. Bring Conquet Mill over

St: Matthew's Point, a little to the W. of the Abbey of St. Matthew's, and go away with them S. by E. till Crodon bears due E. and then a little more easterly, because the Bas du Lis hes a little out, in your way, more than the rest, till the Land on the E. side of Camaret be hid by Tontiniquet Point; then you are clear of all the Rocks.

As you enter the Channel between the Great Stevenet and the Great Corfeau, give the Rocks call'd the Kirtons a good Birth, by which you will flum other worse Rocks to the E. of them: And take care to do the like at the Plattes, a foul

Ledge of Rocks on the W. fide of the Corfeau.

N. B. The Tide fets hard upon the Plattes, and runs almost thwart the Bee du Ras; so that in Calms and strong Spring Ebbs, 'tis very hard to avoid running upon the Plattes. You must therefore keep a good Account of the Tides. Also if the Wind blow hard in from the S.W. 'tis dangerous.

There lies a Shoal W. of the Corfeau, call'd the Point de Saint; others call it the Seams, distance half a L. it runs to seaward 4 Ls. at least W. by N. and there are several sunk Rocks upon it extremely dangerous. At the E. end there is a Tail runs from it call'd le Chats, 2 long Ls. and more; and upon that part are several Rocks which lie above Water.

About a L. and half from *Bec du Ras* there is an Island upon the Shoal; and, in a word, the Shoal and the Tail-Bank too, is all cover'd over with Rocks, some dry, some only bare at low Water, and some sunk and never dry: So that it is a most dangerous Place.

Between *Uthant and this Shoal lies the Passage de Liroise, being a broad Sound reaching from St. Matthew's Point 5 Ls. into the Sea.

E.S.E. from *Bcc du Ras* lies *Hodierne Bay*, distance 2 ½ Ls. Give the Shore a good Birth, at least 2 Miles, that you may go without the Rocks, which lie near the Land, 3 to 4 Miles E. of *Bcc du Ras*. There is a very good Haven in the Bay, and a good Road mid-way between the *Bec du Ras* Point, and the Bay.

There are two high Hills on this Coast (and by which you may know it) call'd the Sheets, which are seen in clear Wea-

ther into 55 Fa. Water.

S.E. by S. from Hodierne Bay, distance 5 Ls. and 7 Ls. S.E. from Bee du Ras, lie the Penns, a Ledge of noted Rocks; they lie off from the main Land of Pennark a L. to the S. upon the S. Point of which is a flat square Tower, and W. of the Point another Steeple with a Spire on it; also a Village opposite to the high Land castward, which appears like a Castle with a flat Tower at the E. end of it, and two great Rocks lying close under Shore. Tho by all these Marks you may be inclin'd to venture in, and perhaps may safely do it, yet as it is very dangerous, you had better take a Pilot. Here is a good Haven when you are in, with 3 Fa. at low Water. You go

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N.N.E. from the E. end of Groa, distance 1; L. is the Entrance into the Harbour of Port Louis; 'tis a noble Harbour when you are in, tho a difficult Entrance, for which you must have a Pilot. There is also a good Road behind Tudy Island, in the Entrance of the River Quimper Corante; but if you go in there, you must take a Pilot.

S.S.E. from Groa, distance 2.7 Ls. lies a dangerous Rock call'd the Birvidaux, which is sometimes dry sometimes not, and has several sunk Rocks about it. When the Point Lay is right over Point de Croix, and the northermost Wind-mill on Quiberon bears E. by N. then you are thwart this Rock, and may avoid it. Going on still S.S.E. distance 5 Ls. is Belle Isle; and from Penmark it lies E.S.E. southerly, distance 16 to 17 Ls. The Island lies so high, you may see it out at Sea in 55 Fa.

The N.W. end of Belle Isle is soul, and has several sunk Rocks about it: Yet giving those Rocks a good Birth, there is very good anchoring at the N.W. end; but the best riding is within the Island in Sauzon Road, or off of Point 3t. Julian, where the royal Navy of France may ride in 6 to 12 Fa. perfectly secure from a S. a S.W. and a N.W. Wind, and only open to a N. and N.E. and in case the Wind shifts to those Points, you can shift your Moorings allo, and run to the E. end into Port de Lomaria, or Port de St. Andro, where you are safe again, and have 6 to 11 Fa. The Island lies N.W. and S.E. and good riding any where all round it.

E. by N. distance 2 Ls. from Belle Isle, is the Isle of Hedic; and S.E. from Hedic, distance 1 2 Mile, lie the Cardinaux, a Ledge of Rocks above Water, but with other Rocks about them, fome of which are cover'd and dangerous: And N.E. from Belle Isle lies another little Island call'd Hovat, distance 2 Ls. from Point Lomaria: And 3 Ls. N. from Belle Isle lies Quiberon, a Peninsula, for at low Water it joins to the Main. Between Port Louis and Morbain, at the S. end of it, there is a Ledge of Rocks, which run out to feaward a L. in length. If you are bound from the N. Coast of France to Nantes, or to Roch B rnard, or Vannes, or Morbain, you may faiely run thro' here, within Belle Isle, and between the Islands of Quiberon and Hovat, and fo go about to the castward of the Cardinals, or Cardinaux: But if you do this, I advise every Stranger to take a Pilot at Belle Ille, for the Entrance of all these Rivers is very hazardous on many Accounts, especially that of the Loire, and the Vannes: The Ebbs there run exceeding strong because of the great Freshes, infomuch that fometimes in the Vannes, tho it blows a Storm right in, you will hardly stem the Current with all the Sail you dare carry. There are two Rivers join here, one from Vannes, and one from Auray; and there are many lunk Rocks at the meeting of the Channels, therefore go in without a Pilot at your Peril.

The Setts of the Tides and Currents, and the Flowings by the Moon on this Coast, are as follows:

Without Cape Usbant, a W. and E.N.E. Moon makes full

E. of Bec & Ras. There is a very good Haven in the Bay, and a good Road mid-way between the Bec du Ras Point, and the Bay.

There are two high Hills on this Coast (and by which you may know it) call'd the Sheets, which are feen in clear Wea-

ther into 55 Fa. Water.

S.E. by S. from Hodierne Bay, distance 5 Ls. and 7 Ls. S.E. from Bee du Ras, lie the Penns, a Ledge of noted Rocks; they lie off from the main Land of Pennark a L. to the S. upon the S. Point of which is a slat square Tower, and W. of the Point another Steeple with a Spire on it; also a Village opposite to the high Land castward, which appears like a Castle with a slat Tower at the E. end of it, and two great Rocks lying close under Shore. Tho by all these Marks you may be inclin'd to venture in, and perhaps may safely do it, yet as it is very dangerous, you had better take a Pilot. Here is a good Haven when you are in, with 3 Fa. at low Water. You go out to Sea from it S.E. among infinite Rocks, some above Water and some under. You have 10 Fa. in the Entrance into the Haven, so that any Ships may go in with safety, the Rocks only excepted.

The Isles of Glenan lie off here, distant from the Penns 3 to 4 Ls. E.S. E. And about a L. to the N. of them lie the Isles ann Muttons: The Fair Way lies between all these Islands and the Main, and there is a very good Road between them and the Bay of Burec. Being on the N. side of the Islands, distance from Burec about 2 Ls, you have clean Ground, and 10 to 15 Fa. Water. Between the Islands also is good anchoring in 12 to 13 Fa. tho' there is a dangerous Rock lies there call'd the Porcean; also there are sunk Rocks off of the Muttons

S.W. by W. running 2 Miles into the Sea.

Also half a L. from the Glenan S. is a great Rock call'd the Jument, with a Ledge of sunk Rocks tailing away from it W.N.W. near half a Mile, yet you have 25 to 30 Fa. on the W. end. Besides these Rocks, there lies off a Shoal, with several Rocks upon it, which are seen only at very low Ebbs; its call'd the Basse Janne; it lies a League W. from Cape Glenan, and 4 Miles from the Shore, in the Fair Way between the Isles of Glenan and the Main.

Between this Shoal and the Main there are feveral other Shoals with Rocks on them, distance from the Shore 2 Miles: But you have clean Ground to the E. all without them, keeping a L. from the Shore; and when you are past the Isle Verte, its all good clean Ground, and 10 to 14 Fa. Water along shore to

the Island *Grouais*, or *Groa*.

This Isle of Groa lies off about a L. from the Shore, and from Mutton Islands 7 Ls. E. by S. and E.S.E. The Island is known by three Wind-mills on the E. end, the Land high and steep, and the W. end slat and sloaping; it lies off of Blavet, that is, Port Louis, a little westerly. Under the E. end there is good Anchoring in 6 to 7 Fa. safe 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. end it is rocky and foul.

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The Setts of the Tides and Currents, and the Flowings by the Moon on this Coast, are as follows:

Without Cape Ushant, a W. and E.N.E. Moon makes full Sea.

At St. Matthew's Point, a S.W. and N.E. Moon makes full Sea.

At Brest, a S.W. by W. and N.E. by E. Moon makes high Water,

In the Broad Sound between Ushant and Point de Saint, a W.S.W. and E.N.E. Moon makes full Sea.

The Flood fets strong upon the Island V/hant, and to the southward of it upon the Isle of Malene, as also thro' the Broad Sound into Brest Harbour.

It likewise fets with a great Rippling along by St. Matthew's Point, towards the Passage de la Four, and therefore must be accounted for by those that come from Vshant.

At Bec du Ras, a S.W. by S. and N.E. by N. Moon makes high Water: The Flood fets very strong there, and thro' betwixt the Grand Stevenet, somewhat thwart over towards the Coursean, with very great Ripplings over the Plats.

It fets also from thence N and by W. inwards to St. Matthew's Point; therefore near the Bec du Ras, you must, in Calms, take heed you be not carried away with the Current, as also in Storms and hard Weather our of the N. or S. 'Tis not a little dangerous coming into this Channel, especially with an Ebb, or Out-sall.

'Tis observ'd, That on most part of the Coast of Bretagne, and the Islands thereabouts, a S.W. and N.E. Moon makes high Water: But within the Havens, Rivers, Indrasts, Bays and Creeks, a S.W. by W. and N.E. by E. Moon, or a Point later, according as the Havens or Rivers lie deep in the Land.

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 Coast of Spain, (by the swelling of the great Ocean) comes right against the Coast, and so runs only into the Havens: The Ebbs, on the contrary, go thwart from the Shore seaward as it falls: So that the Course of none of the Streams is to be perceiv'd, unless it be a little thro' or about some Points of Islands, where the natural Course of the Tide is interrupted by the said Islands,

thereby

Directions for Sailing on the C

thereby causing Eddies, and uncertain "hirlings of the Tide to the leeward of the said Islands, will ought to be carefully allow'd for.

The Depth of Water.

The Isle of *Ulhant* bearing about S. from you, may be seen when you are in the depth of 50 Fa.

S.W. from V/hant, about 6 Ls. off, you have 75 Fa. Water,

and may fee the Land from the Poop.

In the Broad Sound, between Point de Saint and Ulhant, you have 45 Fa. deep: About a L. without Point de Saint it is 60 and 55 Fa. And Point de Saint may be seen when you are in 60 or 65 Fa. Thwart the Rocks of Penmark, and the Isles of Glenan, you may see the Land, when you are in 55 and 60 Fa.

You may see Belle Isle from below, when you are in 56 Fa.

but upon the Round-Top in 60 Fa.

Between the Vannes and the Loyre is another River, call'd the Vilaine; the Entrance lies E.N.E. from the Isle Hedee, diffance 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 Rivers lies the Town of Crozic, making the Westmost Point of the Mouth of the Loyre, a Place of much Shipping for Wines, Brandy, Salt, &c. and with the Vilaine 3 Ls. lies the Town of Roche Barnard, high the Country: If you are bound up, take a Pilot; but for Crozic a short Direction serves, which is only to avoid a Sand call'd the Four, off of Crozic, by running to the seaward of it, and of the Isle Dumet, which lies on the S. fide of the Entrance of the Vilaine: On the N. fide of the Dumet you have a good Channel up the River, and then you are clear of all Dangers; you may go close to the Island on the W. fide, but the E. fide is foul, and must have a large Birth given it.

S.E. from Crozic lies Poulguen, a Village with a high Spire Steeple, distance 1 L. which is the Mark for the Channels of both Rivers. To enter the Vilaine, you must leave it on the Starboard; and to enter the Loyre, on the Larboard-side. A L. off of Crozic Point, W. into the Sea, lies the N. end of a great Sand call'd the Four, on which are four Rocks, seen at low Water; they lie N. and S. 1 † L. in length. When Point Penvis bears N. and the high Spire of Guerande N.E. by E. half casterly over Crozic, then you are thwart the S. end of it; and of the N. end, when Penvis bears N. a little westerly,

and Crozic E. foutherly.

To fail into the Loyre, and up to Nantes, our Pilot-Books direct you from Bell Isle to St. Nazaire, and then to take a Pilot; but as no Stranger can go the length of Nazaire but with some Difficulty, I advise to take a Pilot at Bell Isle. There are several Banks lying in the Mouth of the Loyre so uneven, that at one cast you have 15 Fa. and at the next but 8 or 9; and as some may be more uneven, 'tis much better to take a Pilot both in and out, where those Dangers begin.

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the Isle of Rhee: so you may edge to the Island into 4 or 5 Fa. and that depth will carry you into the Road of St. Martins; 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 Channel of Pertuis Breton till you bring the Mouth of the little River between St. Michaels and the Channel of Lucon right over the Point de l'Aguillon, and run with that Mark quite thro' between Point St. Marc on the Main, and Point Sablonceaux on the Isle of Rhee; and by that Course you will go clear of the Lavardine.

The Lavardine is a Bank half a League from the S E. Point of the Isle of Rhee, between that Island and the S. Point of the Harbour of Rochelle; 'tis dry at low Water: Between it and the Rhee you have 12 to 14 Fa. Water. From the Point St. Marc, there is a Sand called La-mere, which stretches out half over the Channel, so that keeping on the Coast of the Island

you go clear of them both.

When in this Course you bring the great Steeple of Recebel even without the Che de bois Point, and the N. Point of the Plomb a Ship's length without the S. Point, then you go right with the Lavardine; but bring Point Coursel due E. and you may be certain you are gone clear of it; and may run boldly into the Road of Blasques, or S.E. by S. to the Isle de Ain, as you please.

From Rhee to Oleron there is a broad Channel, called Pertuis d'Antioche; the Courle is S.E. distance from the Isle Dieu 16 Ls. On the side next Oleron there lie the Antioche, the Mater, the Repos, the Longee, all Sands and Shoals; go on S.E. only keep nearer the Rhee than the Oleron, and you miss them all: if it be night, come no nearer the N. end of Oleron

If you would go into *Rochel*, take a Pilot, tho the Harbour is not difficult except to a Stranger: But if you go forward, observe that from *Che de Bois*, which is the N. Point of the Entrance into *Rochel*, to the Isle of Aix, is S. by E. distance 25.

N. E. West from the Isle of Rhee, distance 11 or 12 Ls. off to Sea, lie some Banks called Les Roches Bonnes, on which there are such Overfalls, that in some places you have 2 or 3 Fa. and in a Cast or two 30 Fa. You may ride on the S. side of those Banks in 30 Fa. and on the N. side there is at least 60 Fa. This makes it very dangerous coming on those Shoals in dark Weather; and in Storms the Sea breaks very terribly upon them. Upon the Banks called the Vertes, which is but a Mile off them, is even Ground, and 50 to 60 Fa.

Between Point Angolin and Chatilaillon lie the Blafques, 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, because of Rocks which lie West out into the Sea, for a Leag, and half from the Point, all under Water: also the Coast is full of stony Banks and sunk Rocks, all from Point du Chu to Point Couril.

The Lauree is a Bank of Sand the S and of it reaches

hoth Rivers. To enter the Vilaine, you must leave it on the Starboard; and to enter the Loyre, on the Larboard-side. A L. off of Crozic Point, W. into the Sea, lies the N. end of a great Sand call'd the Four, on which are four Rocks, seen at low Water; they lie N. and S. 1 \(\frac{1}{2}\) L. in length. When Point Penvis bears N. and the high Spire of Guerande N.E. by E. half easterly over Crozic, then you are thwart the S. end of it; and of the N. end, when Penvis bears N. a little westerly, and Crozic E. southerly.

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S. of the S. Point of the Loyre lies the Bay and Island of Normoufliers, called allo the Bay of Bourneuf. At the bottom of the Bay lies the Island of Boving, wholly cover'd with Salt-Pans. From Bell Isle to Normoustiers the Course is E.S.E. distance 13 Ls. Go sirst E.S.E. till you bring Abbe Blanch in Normoustiers to the northward of the Trees over the Abbey, then E. by N. till the Abbey comes without the Castle, then E.S.E. again, till you are within the Moin or Monk Rock; and when the Barr de Mons opens from the E. Point of La Fossa, there you may anchor, in 6 to 7 Fa. and take a Pilot if you would go farther in.

S by W. from Normonstiers, distance 5 Ls. and from Bell Isle 16 Ls. S.E. lies the Isle Dien, called in some of the Charts Heis: there are some Banks in the Fair Way, but there is 5 to 7 Fa on them at least, and in the Fair Way from Bell Isle 35 to 40 Fa. There are 5 Windmills altogether in the middle of the Island, which is Mark sufficient to know it by: 'tis a bad Road, and a high raging Sea comes boiling and roaring up, as if it came from a subterrancan Passage under the Island. The best riding is on the N.E. side, but it is but indifferent any where: the N.W. is shoal far into the Sea at least 2 Ls.

From hence there is a fair Strand upon the Coast the Pertuis Breton, and the Isle of Rhee: the Course from the Isle Dien is S.E. by E. distant 13 Ls. In the Fair Way of this Course lie the dangerous Rocks called the Barges of Ollone; they are seen at low Water, being about half a League from the Main, and Ls from Le Isle Dien. From thence the Course lies to Le Peray S.E. by E. 2 Ls. and to Pertuis Breton 4 Ls. You may anchor in the way before Le Sables d'Ollone in 8 to 10 Fa.

Pertuis Breton is the Name given to the Channel on the N. of the Isle of Rhee, between that Island and the Main. In passing this Channel, the best Course is to go nearer to the Main than to the Island by one fixth part: in this Course you have 10 to 13 Fa. but when you bring the Fort of St. Martins to bear S.S.W. and S.W. by S. it will be shoaler; then you are pass the Bank, which runs off from the Isle d'Oye to the N. of

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N. E. West from the Isle of Rhee, distance 11 or 12 Ls. off to Sea, lie some Banks called Les Roches Bonnes, on which there are such Overfalls, that in some places you have 2 or 3 Fa. and in a Cast or two 30 Fa. You may ride on the S. side of those Banks in 30 Fa. and on the N. side there is at least 60 Fa. This makes it very dangerous coming on those Shoals in dark Weather; and in Storms the Sea breaks very terribly upon them. Upon the Banks called the Vertes, which is but a Mile off them, is even Ground, and 50 to 60 Fa.

Between Point Angolin and Chatilaillon lie the Blafques, 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, because of Rocks which lie West out into the Sea, for a Leag. and half from the Point, all under Water: also the Coast is full of stony Banks and sunk Rocks, all from Point du Chu to Point Couril.

The Longee 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 ; a L. of the N.E. fide of Oleron, it lies extended 2 Ls. in length, and is dry at low Water at either end, but towards the middle has 2 to 3 Fa. On the other fide of the Aix next the Main, lies the Dennet, or the Isle d' Enot; and E. 2 Miles is a Sand called the Manes, which is dry at low Water. E. from the Isle d'Enot lies the Entrance into the River Charente, which comes down from Rochefort; if you are bound in, take a Pilot at Aix: This River ebbs almost dry a great way into the Land: Also if you are bound to Brouage, do the fame; or if you are for venturing fo far, you may take your Pilot at L' Ilie Madam, for both Channels. Taking Pilots here, it is uselest to give the Marks for the Entrance of those difficult Channels, which are so full of Sands and Shoals, that no Chart can give sufficient notice of them.

S. by E. of Oleron is the Passage called The Maunuson, leading to Point du Gardour on the main Land of Sanctonge: It lies in from the Sca E. by S. along by Point Gardour E. by N. to the Mouth of the Scudre; the Passage has depth for the greatest Ships; there is 3 Fa. at low Water. From the S. end of Oleron there lies a Sand called the Gateseaux, stretching \(\frac{1}{4}\) at L. towards the Point; and at the Entrance of the Scudre lie z

Sand Banks, which ebb dry every Tide.

The Grand Barret is a Bank of Sand to the S. of Urgent, if you come from the Sea, you are upon it before you open with the River Sendre; but when you fee the Mouth of the River, you are quite over it, and may either run up the River, or to the northward within all the Sands, and within Oleren quite to Rochel, by the Channel described for coming fouthward before; or if you are to fail farther, go out thro' the Pertuis d'Antioche, but the Directions for the same Channels South will be sufficient, if read backward, with due Allowances for the Course north.

In failing along this Coast, besides the Directions given for particular places, take the following general Observations to

make use of as you find occasion.

On the W. side of the Island of Oleron, a little to the northwards of Sablere, and the great Bank of Choere, there is a Road where you may anchor in 3 to 7 Fa. off from 3 Rocks that lie near the Shore. The Coast to the northward of this Road, as far as the N. Point of this Island, is very rocky, call'd Rock de Purley, and the Shoals reach a great way off the Shore.

So likewise to the southward 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 Island Oleron, to the northward of Point du Tour de Terre, you have a fair Road with 3, 4, or 6 Fa. Water. In all these Islands, as also upon all the French Coast last described, from the Barges of Ollone to the River of Bourdeaux, a S.W. and N.E. Moon makes sull Sea.

When you have 55 Fa. Water, you may see Bell Isle from the Deck: you may likewise see Isle Dieu 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 Isle Dieu, you will have 45 and 46 Fa. the Ground full of sine small Stones, no bigger than coarse Sand.

You may see the Land of Ollone from off the Deck, when you are in 25 and 30 Fa. The N. end of the Island of Oleron, as also the Isle of Rhee, may be seen from off the Deck, when you are in 28 and 30 Fa.

As foon as you discover the Isle of Rhee, you will see a high Tower, and a House upon it, as also a Windmill upon

the Strand, and 4 or 5 high fandy Hills.

When the Island of Oleron appears, you will see a high Spire upon a red Point, with several Trees not far off, and 2 or 3 ragged Sand-hills to the southward of it.

From the Isle Dien to the Garonne, or as the Sailors call it the River of Bourdeaux, is S.E. by S. distance 27 Ls. The Land from the Passage de Maumuson lies S. by W. 3 Ls. to Point de la Coubre, 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 those black. W of the Point La Coubre lies a Bank called La Coubre Terre, lying half a L. N. and S. The Channel between is called La Pettie Passe, in which you have but 6 Foot at low Water. More to the W. of Point La Coubre is another larger Bank, called Matelier, distance a L. and lying a L. in length to Seaward: and between these two is a third Bank without a Name; but as it makes two Channels between the Matelier and the Coubre Terre, those Channels are called Le Pas de Coubre Terre, and de Cherantais: and without all, to the S. right off of the middle of the Matelier, lies another nameless Bank of Sand, distance + L. The Channel between is called Pass de la Matelier, thro' which you have 8 to 9 Fa. at low Water, lying S.W. and S.W. by W. from Point de Coubre, distance 2 Ls.

Again, S.W. by W. from this last small Bank, distance 1² L. lies another Sand on which is but 3 Fa. at low Water. All

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take experienc'd Pilots to direct them, the Place being so very intricate, and the Channel not buoy'd and mark'd here, as they are in Holland and the Coasts farther North.

From the River Garonne, the next place of note is the Baffin of Arcaffon: the N. Point of the Entrance into it is call'd Cape Terret, distance 17 Ls. the Coast between a low clear Strand, neither Rocks nor Sands, with good gradual Shoaling, from 10 to 2 Fa. the Land generally Forest-Woods, no River,

or Creek, or Town (of note) all the way.

At the Entrance of this Basin lies an Island call'd Isle du Terray, from which feveral Shoals and Sands run off to the E. and to the W. Also in the Channel between the Island and Cape Ferret there lies one large Shoal along the fide of the Island, and another thwart the End of it, extending almost the length of the Illand. The Fair Way in, is either to the N. of these Shoals, between them and Cape Ferret, or thro' Paffe de Papon, between the Island and the S. Point; in the first is 8 to 9 Fa and in the last but 2 to 2 ? Fa. at low Water.

In either of these Passages you must carefully avoid that particular Shoal running off from the W. end of the Island de Terray: If you are bound farther in, 'twill be needful to take a Pilot at Cape Ferret, for there are many Channels, and difficult Places within, even after you are pals'd those Shoals.

From hence to Bayonne you have nothing remarkable: The Coast of Gascoigne is all a low plain Strand lying N. and S. for the length of 23 Ls. Bayonne stands on the River Adour, the Opening is between two plain Strands, and goes in E. by N. The Sands in the Mouth of the River are often shifting, and very uncertain, by reason of the Freshes from the Mountains, which are very violent: There are indeed two Masts on the S. fide of the Channel to guide Ships over the Bar, which is otherwife very difficult, having at low Water not above 3 Foor, fometimes not to much; but that is not fufficient for the Channel afterwards. Here therefore a Pilot, is absolutely necessary.

On the N. fide of this Harbour within, lies a great inland Water, at least 7 Ls. in length: It has another Opening also into the Sea, at Cape Bretoon, which is call'd the antient Mouth of the Adour; but here is no Navigation except of fmall Boats.

This City of Bayonne is the last Port in France, and makes the Bottom of the Bay of Bifeay: For from hence to St. John de Luz, the Coast turns away more to the S. St. John de Luz lying S.W. by S. distance 3 Ls. You may ride in the Bay in 4 to 6 Fa. clean fandy Ground. Port de Secca lies at the Bottom of it, a Tide-Haven, and dry at low Water. This Bay would need a Pilot, if there were any Ports of note within it, but as there are not, 'tis hardly worth deferibing. It lies, as above, in the very Bight of the great Bay of Bifeay. To the eastward the Land trends away N. by E. towards Bayonne, and to the westward it falls away S.W. by W. and then due W. towards Fontarabia: on the E Point stands a Tower call'd the Hermitage, which may be feen far out to Sea; and on the W. Point a flat white Houle upon a high rifing Land, which is a Mark

and is all long full of white Sand Hills: But beyond the River to the fouthward 'tis low and flat, with a few Sand-hills, and those black. Wof the Point La Coubre lies a Bank called La Coubre Terre, lying half a L. N. and S. The Channel between is called La Pettie Passe, in which you have but 6 Foot at low Water. More to the W. of Point La Coubre is another larger Bank, called Matelier, distance a L. and lying a L. in length to Seaward: and between these two is a third Bank without a Nanc; but as it makes two Channels between the Matelier and the Coubre Terre, those Channels are called Le Pas de Coubre Terre, and de Cherantais: and without all, to the S. right off of the middle of the Matelier, lies another nameless Bank of Sand, distance \(\frac{1}{2}\) L. The Channel between is called Pass de la Matelier, thro' which you have 8 to 9 Fa. at low Water, lying S.W. and S.W. by W. from Point de Coubre, distance 2 Ls.

Again, S.W. by W. from this last small Bank, distance 12 L. lies another Sand on which is but 3 Fa. at low Water. All these Sands and Shoals lie off of Cape Coubre on the N. fide of the Mouth of the River; and having run thro' the latter Paffage La Matelier, you may be faid to be entred the Channel; but for the River it felf, whose 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 general trust to them, but either depend upon Experience, or

Sailing Directions for the Coast of Spai of Fontarabia on the River Bidassoa inclusive and the Port of Viana exclusive.

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E are now entring upon the Coast of Spain, the two Kingdoms of France and Spain meeting hereabouts: It is not material where the exact Limits are fix'd, 'tis enough to our Purpose to observe, that as the City of Bayonne is the last Port of France,

fo the City and Port of Fontarabia is the first Port in Spain. The Coast lies as follows:

W. and by S. from St. John de Luz, distance 4 Miles, lie the Rocks call'd the Pignons of St. Anna, near the Shore; and W. from those Rocks lies the Bay of Fontarabia, or Fuentarabie, with the City of the same Name; the W. Point of this Bayis call'd Point Figuera, upon which stands a Castle and a Chapel, a little to the fouthward: The River is call'd Bidaffou.

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Water, at least 7 Ls. in length: It has another Opening also into the Sea, at Cape Bretoon, which is call'd the antient Mouth of the Adour; but here is no Navigation except of small Boats.

This City of Bayonne is the last Port in France, and makes the Bottom of the Bay of Biscay: For from hence to St. John de Luz, the Coast turns away more to the S. St. John de Luz lying S.W. by S. distance 3 Ls. You may ride in the Bay in 4 to 6 Fa. clean sandy Ground. Port de Secca lies at the Bottom of it, a Tide-Haven, and dry at low Water. This Bay would need a Pilot, if there were any Ports of note within it, but as there are not, 'tis hardly worth describing. It lies, as above, in the very Bight of the great Bay of Biscay. To the castward the Land trends away N. by E. towards Bayonne, and to the westward it salls away S.W. by W. and then due W. towards Fontarabia: on the E. Point stands a Tower call'd the Hermitage, which may be seen far out to Sea; and on the W. Point a stat white House upon a high rising Land, which is a Mark for the Port.

But this Port is best known by a high Mountain, call'd after the Town, or the Town after the Mountain, we know not which, the Mountain of St. John de Luz: It is seen above all the Hills in the Country, and many Leagues off at Sea. Upon the Top of this Hill there is a Chapel, from whence, they tells us, one may see into sour Kingdoms, viz. France, Spain, Arragon and Navarre: This Hill is also the Mark at Sea used to know the Place by.

oast of Spain, beginning at the City and Port associates, and ending at the Frontiers of Portugal,

of Spain, the inceting herecact Limits are observe, that ort of France, Port in Spain.

the Shore; bia, or Fuene W. Point of a Castle and iver is call'd West of this Cape lies Port Passage, distance 1 L. a very fine Haven with deep Water; both these Places require Pilots to carry you in. Going on still W. distance a L. lies the City of St. Schastian, a plain and easy Harbour; yet Strangers generally take Pilots here also, because of other Dissipulities after they are in.

W. by N. from St. Sebastian lies Cape Macheo, or Machecao, distance 22 Ls. Between them on the same Coast lies the River de Oro, distance 4 Ls. and Saracus 1 League from de Oro: Here you may anchor in 10 Fa. The Coast of Biscay is every where good clean Ground, and good riding, in 20 Fa. from St. John de Luz to Gattaria, which is 7 Ls. Gattaria is a round sandy Bay, and good Ground, safe from westerly Winds: The Bay is call'd King's Haven. Deva is an off Water com-

Directions for Sailing on the Coasts

ing from the Mountains, distance from Gattaria 4 Ls. W. And 2 Ls. farther W. lies Montrico; and 2 Ls. more Handaro in a small Bay; and to the westward of the W. Point of the Bay lies Cape Machicao, distance 3 Ls.

There is a little Tide Haven W. of Machicao, with a Town upon the River named Placentia. Between that Haven and the Cape lies a great Rock close to the Land, and another on

the Point, call'd Punta de Avelane.

S W. by W. from Cape Machicao, in a large fine Bay, lies Rarmea; tis a small Haven, but good riding and deep Water. You must give the E. side a good Birth, and run in by the W. side, and anchor where you please. S.W. by S. 2 Ls. sarther, is Placentia; there is a small River, and the Town lies a little within it: All these are Tide-Havens.

Two Ls. farther W.S.W. and W. by S. is Bilboa; it lies 4 I.s. up a small River: The Port is barr'd, and at the E. Point there is a Riss shoots off, with some Rocks under Water: The Point is high and rocky, it looks white off at Sea like Chalk, but is only Stone. Within this Riss you may anchor till a Pilot comes off, for no Ships go in here without; this Road

is 1 \(\frac{1}{2}\) L. from the Bar, S. by W.

West from the Point off of the Bar at Bilboa River, distance 4 Ls. is Castro; 'tis a good Haven, and deep Water from 6 to 8 Fa. the Entrance is narrow and deep, being full 10 Fa. but sarther in, tho broader, 'tis but 3 to 4 Fa. all the way. Between Bilboa and Castro you have 12 Fa. Water within half a L. of the Shore. Here also Pilots come off to bring you in.

From Castro Bay the Course is W. by N. distance 5 Ls. to the Hill of St. Anthony, that is, 4 Ls. to Laredo W. and 1 L. N.N.W. to the Hill: You go close by St. Anthony'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 usual Road is within them, before the Haven, which is built by Hand; the great Ships ride farther out. On the S. side is another Haven, and from thence runs out a great Rist stretching 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. Anthony's Point 10 Fa.

Two Ls. farther W.S.W. is Cape Kefgo, lying to the castward of St. Andero: Thwart of it is large clean Ground, and deep Water. From this Cape to the S.E. Point of the Peninsula of St. Andero is S.S.W. distance 4 Ls. A little to the southward is good anchoring in 10 Fa. Cape Kefgo makes a large Bay; St. Andero is at the Bottom of it, the Haven is on the E. side, and the Peninsula, on which the Town stands, on the W. The Course to it from the Cape is W. by S. 3 ½ Ls. You have any depth here from 7 to 20 Fa.

N. B. Our Pilot Books observe that St. Andero is a very good Harbour, but not safe to go in or out without a Pilot.

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From the Island of St. Cyprian to Cape Ortegal is 9 Ls. W. by N. and W.N.W. Between them lies the little Bay of St. Marcus, where you may put in and ride fafe, in case of S.S.W. or Westerly Winds, in 7 to 8 Fa. All this Coast is clean and

good, and full of excellent Ports.

W. from St. Marcus is the little River of Karyns, where is a good Road in 8 to 10 Fa. but no Town or Haven except a imall Village called Karyns at the W. Point of the Entrance. From hence the Land stretches out with a long Point into the Sea, making a fafe Road under it to the castward: this Point runs N.W. by W. 5 Ls. and the outmost Point is called Cape Ortegal.

There is a Castle upon the Cape, and off of the Castle is the best Road due E. and Landlockt from a westerly Wind, either N.W. or S.W. If you come from the castward, you see this Castle a great way off at Sea; it looks at a distance as if it

stood in the Sea, the Hills appearing beyond it.

Off in the Sea, distance about a L. and N.N.W. from the Castle, lies a great Range of Rocks; but you may run thro' be-

tween them and the Cape in 10 Fa.

S.W. from Cape Ortegal is Cape Prior, being the first Point on the fide of the Ocean, the Course is S.W. distance 10 Ls. between lies the Haven and Town of Siverus, a very good Harbour and deep Water from 5 to 12 Fa. In all their Ports and Havens for fome length there has been no need of Pilots; all the Coast is clean and bold, the Havens clear, deep, and all the Dangers (if any) visible, so that you may fail on almost any where, and run in any where.

In this Haven of Siverus the N. side of the Entrance is rocky and foul; but the Rocks are all above Water, and the W. fide is all clear and deep, to that you will eafily fee your Course. The Land on the W. fide is high and steep, close by it you have 12 Fa. and within the Haven 10 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 rocky Point, at a distance it seems to be cover'd with People looking to fee you come in; but when you come on Shore, you find few People there. This is the first Cape that is dangerous; you must give it a good Birth, for it is full of Rocks all about it, tho most of them are above

Water, especially two great ones.

N. by E. from Cape Prior lies the Haven of Ferol, it lies in a little Bay, and you see the Haven open it felf as soon 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. close by the Point, and anchor under it, because to the W. of the Village the Ground is not good, but flat and foul. Entrance is so narrow, that you may toss a Stone ashore on either side; yet 'tis a clear Channel, and not less than 15 Fa. in the midway. But there being some Difficulties in coming into this Port from the Groyne, or from the W. they generally brigo Protesvith them . but from the

The usual Road is within them, before the Haven, which is built by Hand; the great Ships ride farther out. On the S. side is another Haven, and from thence runs out a great Riss stretching 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. Anthony's Point 10 Fa.

Two Ls. farther W.S.W. is Cape Kefgo, lying to the castward of St. Andero: Thwart of it is large clean Ground, and deep Water. From this Cape to the S.E. Point of the Peninsula of St. Andero is S.S.W. distance 4 Ls. A little to the southward is good anchoring in 10 Fa. Cape Kefgo makes a large Bay; St. Andero is at the Bottom of it, the Haven is on the E. side, and the Peninsula, on which the Town stands, on the W. The Course to it from the Cape is W. by S. 3 ½ Ls. You have any depth here from 7 to 20 Fa.

N. B. Our Pilot Books observe that St. Andero is a very good Harbour, but not safe to go in or out without a Pilot.

From St. Andero to Settevilles, a finall Tide-Haven, the Course is W. distance 4 Ls; thence to St. Vincent 4 Ls. more, the Course the fame: Thence to Idone or Lianes 3 Ls. the Course still W. Thence to Rio de Sella, distance 5 Ls. the same Course W. But then from de Sella to Villa Vitiosa the Course changes to W.N.W. distance 6 or 7 Ls. All these little Bays and Havens require Pilots, and they are always ready on the least Signal.

West from Villa Viciosa lies the Point of Sanson, on which is a little Tower; between the Town and the Tower is good anchoring in 6 to 7 Fa. as there is also on the W. side before

the Town.

West of Sanson is the Haven or Peer of Gyon; and a L. W. of that lies the Bay of Torres; and 3 Ls. N.W. of Torres lies the Cape de Pinas: You must have a Pilot to go in here. Within the Cape lies Avielos, distance 4 Ls. 'tis a Tide Haven, tho great Ships may go in at half Flood, but you must have a Pilot to guide you in.

From Avielos to Luarca is 3 Ls. and thence to Ribadeus - Is. all W. by S. From the E. Point of the Haven of Ribadeus there runs off a Ledge of Rocks toward the W. Shore, you may found about it in 4 Fa. to 4½: But if you go into the

Port, you must have a Pilot to carry you up.

West from Ribadeus lies a little Tide-Haven, distance 1 L. They that come along Shore from the W. may mistake it for Ribadeus, but when they see the Marks they will casily

diftinguish.

Cape de Brilo, or de Bourel, lies N.W. from Ribadeus, distance 6 I.s. A little to the westward of it lies the Bay of St. Cyprian, you may anchor in it near a Village on the W. side of the Bay in 9 and 10 Fa. 1 \(\frac{1}{2}\) L. W.N.W. lies the Island of St. Cyprian, before the Haven of Viverus; and by this Island you may know the Haven, it being the Mouth of a River which goes far up into the Country.

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Courte. The Land on the W. fide is high and fleep, close by it you have 12 Fa. and within the Haven 10 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 rocky Point, at a distance it seems to be cover'd with People looking to fee you come in; but when you come on Shore, you find few People there. This is the first Cape that is dangerous; you must give it a good Birth, for it is full of Rocks all about it, tho most of them are above Water, especially two great ones.

N. by E. from Cape Prior lies the Haven of Ferol, it lies in a little Bay, and you see the Haven open it self as soon 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. close by the Point, and anchor under it, because to the W. of the Village the Ground is not good, but flar and foul. Entrance is so narrow, that you may toss a Stone ashore on either fide; yet 'tis a clear Channel, and not leis than 15 Fa. in the midway. But there being some Difficulties in coming into this Port from the Groyne, or from the W. they generally bring Pilots with them; but from the N. there feems to be no occasion for it.

From Ferol to the Groyne is 3 Ls. the Course S. and S. by W. tho Cape Prior feems to open the great Bay, in which the Entrance to the Groyne is faid to lie; 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 10 Fa. and you may anchor in 6 to 8 Fa. just within the Castle before the Town it self; but when you are entred, the Pilots always come off to bring you to any particular place of the Bay you please, for there are seve-

ral Roads and Towns within the Entrance.

Due W. from the Groyne, opposite to a Point of Land running out into the Sea N. lies the Island of Cifarga, distance 8 Ls. and from Cape Ortegal 18 to 19 Ls. S.W. and S.W. by W. The Haven of Queres lies just 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 Channel, 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, al-

most a League up the River.

S.W. by W. and W.S.W. lies Cape de Bylem, or Bellem, distance 12 Ls. 'tis a high steep Point, and seen a great way off to Sea; behind it lies the great Sound or Haven of Mounsie, of which this Cape may be faid to be the E. Point, the Entrance being reckon'd to begin here. Several high ragged Rocks lie off of the Point; one of them looking black, and rifing up like a great round Steeple, is called the Monk, but by the Spaniards the Munick: There is also a Range of Rocks which runs out from the Point thwart the Entrance into Mounsie Bay, stretching S.W. by S. three Cables length or more. When you fail with the Shore, 'tis all double Land.

There is good anchoring in this Sound, but it is not so easy to go in, as at some other of the Harbours upon this Coast: there are also no less than three Channels to go in by, so that itis best, if you are bound in, to take a Pilot at the Point.

Four Ls. W. from Cape Belem lies Cape de Toriane, and from thence due N. and S. 'tis 3 Ls. more to Cape Finislerre: In the Course between is a fine sandy Bay, large and deep, running into the Land, with a Bight at the ntmost end turning N. 'tis very good riding here for northerly or N.E. Winds. The best Road is under the Lee of a great Rock, which lies off the N.Entrance into the Bay; under the same N. side sarther in, lie some Rocks under Water; but you will find them by sounding, they are but a sew; besides, they lie out of the way, for 'tis only giving a Birth to the Shore, and you have Water enough and clean Ground.

N. B. Off from Cape Finisterre N.W. by W. 42 I.s. from the Land, there lies a great black Rock in the Sea above Water; it appears at a distance like a large Boat or Vessel turn'd bottom up. Those Ships should be careful of it, who coming from the southward about that distance of 42 L. from the Shore of Galicia, pass thro' the Parallel of 44 d. 20 to 30 m, the Rock lying about that Latitude.

E. from Cape Finisterre, distance t L. lies the Haven or Port of Seche; 'tis called Corcovia by some, by others Corch, by others Corch Bayonne: there are two little sandy Bays between this and the Cape; the westermost is the largest, and lies just under the Cape: and by the second goes in this Haven of Corch: there is good anchoring in them both. On the E. side of the Entrance into this Haven lie several Rocks, one is a great one above Water, and S.S.W. from it is another under Water. But if you go in N. you go clear of all; and as you will see the Town of Seche before you N.E. you may run up to it, and anchor there in 6 to 7 Fa. hard clean Sand.

From the Cape, leaving this Haven to the N.E. the Coast lies S.E. to Mores, or Mouros, distance 6 Ls. In this Course are more Rocks than have been seen together on all the Coast from Bilboa to the Groyne. As soon as you are about Cape Finisterre, you see a high ragged Hillupon the Coast; it runs so far S. that you may see it also from the Sea off of Mores, and 'tis a Mark to know the Coast by. As to Rocks in the Sea, here are very many, particularly E.S.E. from the Cape, distance 3 Ls. lie a great Range all under Water, and S.E. by S. from those lie another Range above Water. W. by S. also from Mores there lie a great many Rocks as well under Water as above; and right in the midst of the Entrance lies a great sunk Rock S.E. off from Mount Lauro.

N. B. Mount Lauro is a high Hill upon the N.E. Point of the Sound of Mores; and is feen a great way off to

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ig on the Coasts of Spain and Portugal.

Channel here also is something difficult, because of Rocks in the Entrance; and therefore Pilots come off to you as soon as you appear standing in for the River.

N. B. 2 Ls. S.W. from the Mouth of Rio Roxo, lies a great funk Rock, which is very dangerous; but it is not in

the Fair Way from any part of the Coast.

S.E. by E. distance 4 1 Ls. from Rio Roxo, lies Puerta Vedra: between them lies a Rock or finall Island, Monte Carbala; there is a Channel within it of ; Fa. but then you must keep from the Shore, for 'tis rocky and foul on the fide of the Main all the way from Roxo to the Puenta Vedra. Right thwart the Entrance into this Port, lies an Island called Blydones: you may fail round it on any fide: on the N where it is shoalest, is 7 Fa. and on the S. side 20 Fa. It is a Port of Trade, and fometimes great Ships put in here. The S. fide of the Island is the best Entrance into the River: the Town lies within a little Bay under the N. Point of the Entrance: in the middle of the Haven lies another Island, which also go to the S. of, and keep all along by the S. Shore as you fail up; then you run over a Bank in 5 Fa. to the Point on the other fide; and just under it lies the Town, there you may ride in A Fa. good Ground.

S. of the Island, in the Mouth of Puertal edra, distance 5 Ls. lie the Islands of Bayonne: when you first make them, they appear as three Islands, and look black and gray: The Sea runs thro' between them but in one place. so that they are no more than two; you will know them at Sea by two, high Hills upon the Main, which are seen over them; the eastermost Hill has 3 Hummocks, and the westermost two, with hollows between the Hummocks: and a little to the eastward of the eastermost Hill you will see a great white Stone Building, being an Abbey. By all these Marks the Islands are easily known; you may fail within them either way, but at the N.E.

end is a funk Rock: Take heed!

These Islands lie before the Entrance into Figo, and the Sound of Bayonne: if you would go in by the northward, you must go between the Islands and the Main, keeping Mid-channel, till you open the Sound of Vigo, or Cannas, which is very broad, and where you may anchor on both sides, that is, on the S. side before Vigo, and on the N. before Cannas, in 12 to 13 Fa. If you are bound farther in, as also into the Sound of Bayonne, you must have the Help of the Pilots, who are always ready here, having not much Business. The Sound of Bayonne is more difficult than that of Vigo.

N. B. A S.W. and N. E. Moon makes full Sea on all this Coast, and in the Harbours a Point later. N. B. The Flood from the Ocean does not flow along Shore here, as on the Coast of Britain and France, but slows directly upon the Shore from the Sea; and so the Ebbs run out of the Rivers and Havens strait on to Seaward.

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N. B. Mount Lauro is a high Hill upon the N.E. Point of the Sound of Mores; and is feen a great way off to Sea.

There is also a Bank of Sand upon this Coast, (which is very rare hereabouts) it lies S.S.E. from the Cape 3 Ls. into the Sea. These Rocks lying so thick about the Entrance into Mouros, 'tis needful to take a Pilot, if you are bound in.

N. B. When you are in the Haven up as high as the Town,

you have 13 Fa. Water before it.

S. E. from Mouros, distance 2 Ls, lies the Rio Roxo; the Entrance into it is by the Island Salure; and on the North Point of the Entrance lies the Town of Villa Nova. The

Sailing Directions for the Coast of Portugal and and the River Guadiana exclusive, wher

Tana, the first Port of the Dominions of Portugal, lies due S. from Camina, distance 7 Ls. The Town stands close to the Water side: From the N. Point of the Entrance lies of a Ledge of Rocks, 2 Ls. from Shore; and before the Mouth of the River on the S. side, are 2 Light-houses: it is a barrd Port, and the Entrance narrow and dangerous; and if you are bound in, a

Pilot must help you.

You may anchor without the Bar in 12 Fa. a good Road and clear Ground; and Ships generally do so, till the Pilots come off to them.

From Viana the Course is S. by E. to Villa de Conda, dist. 6 Ls. 'tis a broad Entrance; and the there are many Rocks before it, there is room enough on either side of them, and not less than 5 to 6 Fa. Water. The Passage to the northward is the narrowest, but is thought the best: when you are in,

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S. from the Isles of Bayonne, and the Port of Vigo, distance 5 Ls. lies the Haven of Camina, the last Port upon this Coast in the Kingdom of Galicia, and the Dominions of Spain: it is a broad Sound, and has Room and Water enough to receive the biggest Ships: The Entrance lies in, N.E. by E. There is a Rock lies above Water in the middle of the Fair Way, a little towards the S. of the Entrance; and to the N. of the Rock is the Road, and the deepest Water. There is a little Island in the Sound, on the N. side, and a Tower upon it, which is the Mark for going in, keeping the Tower on the N. Land, and so run in right with it.

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Portugal and Algarva, from Viana inclusive, to Faro xclusive, where the Coast of Spain begins again.

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Conda, dift. many Rocks f them, and e northward you are in,

the S. fide of the Haven is the best 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, just against a little Haven of 2 Fa. deep, called Mettelyne: Also S.W. from the S. Point of the Lefons, is a great funk Rock very dangerous: You may run between the Lefons and the main in 8 Fa. a fair Channel.

S. of the Lesons distance 1 L. is the opening of the River Duoro, vulgarly called Port-o-Port, or Oporto. On the N. side of the River, 4 Ls. within the Bar, is the City of Oporto, whither the Ships go up, making fast to great Rings in the Town-Walls. But as this also is a barr'd Port, and the Entrance very difficult, so no Ships go in or out here without a Pilot.

From the Mouth or Bar of Oporto the Coast goes away S to Aviero, distance 10 Ls. all the way a clean Strand, a sate bold

Directions for Sailing on the Coasts

Shore, no Rocks or Shoals, or other Dangers; but you fail along Shore in 7 to 8 Fa. When a black Hummock called *Carmode* bears E.S.E. from you, then you are thwart the Entrance of *Revero*. This is also a barr'd Port, and you must take a Pitanana.

Jot to go in.

The Coast of Portugal is easier to be known by several Remarkables, such as the Hills of St. Rego on this N. Part, and Cape Rocq, or Rock, commonly call'd the Rock of Lishon, on the S. Cape de Montego also is a very high Point, S. W. of Livero, distance 7 Ls. its sometimes mistaken for Cape Roque. A Leag. S. of this Cape hes Passage, a Town on the River de Montego, or Cape de Montecho, a small but wide Haven, of no importance. From the Cape runs of a foul Ledge of Rocks into the sea.

There is a good Road under the Cape on the S. fide; you have there a to 3 ha and are fecure from N. and N.N.W. Winds: If it blows from the S. you may fhift, and anchor to the S. of the River under the N. fide of the fouthward Point. From the S. Point runs off a Riff of Sand; take care to go to the northward of it, for you cannot run thro' on the S. fide. This Haven is of the lefs importance, because the Sands are often shifting by

the violent brethes which come down there.

From Cape de Montego the Course is S.W. by W. distance 11 Ls. to Cabo del Ersevon, and the Peniche: Off of this Cape, he the Rocks call'd the Burlings. From Cape de Monte to to the Burlings the distance is 14 Ls. S.W. Behind the Burlings from the N. Pomt, lies a great Rock near the Land; and to the southward of the Rock goes in a Bay, in which is the Town of Attogie: small Barks run in behind the great Rock for shelter in bad Weather; but behind the Burlings is a good Road in 15 to 11 Fa. clear and good Ground.

S, by E. and S.S E. from the Burlings, distance 14 Ls. is the Cape Rocq, or the Rock of Lisbon. From Cape Fiscen, the

Courfe lies due N. and S. diftance 15 Ls.

S.S.W. half W. from Cape Rocq, is a great Rock under Water; on every fide of it is 17 to 18 Fa. Water; but just upon the Rock scarce 7 Foot. Cape Rocq is a great Point running out into the Sea, is exceeding high, and to be seen far off.

There is also to be seen the sharp Hummock of the Abbey of Sintra, very high Land also, but not like the Rocq. E. from the Point of the Rocq, distance 1 L. lies the Road of Cascais, being the northern Point of Opening to the Entrance of the great River Fagus, or Tajo, call'd the River of Lisbon: Here is very good anchoring for N.W. or N.E. Winds, in 12 or 13 Fa, more or less.

Eath of Cafe dis is the Point of St. Julian, or St. Gilian, upon which is a high Fort guarding the Entrance into the Port of Liston; this Point floots far out into the River, fo that the Northern Channel goes in under the Mouth of the Cannon. Here the Ships take Pilots to carry them up to Liston, which is about 5 Ls. from Caféais.

From Cape Rocg to Cafe Spichel, or Cape de Fitcher, is to I.s. the Courfe S.E. by S. There is a high Tower upon the Shore, and the Land it felf is very high; the Caftle of Sez-

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of the Haven lies a great Bank of Sand; when the white Castle on the Water-side bears N.N.E. from you, then you are right against the Haven's Mouth.

It is Pilots Work to go over or about this Bank, and into the feveral Channels of this Haven; therefore I refer that Part to

them.

From St. Whes Point to Cape St. Vineer, or the South-ward Cape, is S.E. distance 29 Ls. no known Havens being between: And from St. Whes Bar to the Southward Cape, is S.E. distance 29 Ls. but the Coast varies by reason the said Bar lies in so far to the N.E. so that you go S. by W. to the Cape. The Coast between the Capes is a clear Strand, neither Town, River, Bay or anchoring Place, except the Selinas, which is of no use, there being no depth of Water. Towards the Cape the Shore is soul and rocky, but Ships generally keep a good Offing here, that they may weather the Cape.

The great Mark to distinguish this Coast by, besides the Cape it self, is Abart Chigo, which lies about the Point or Cape within Lagos: As for knowing the Cape, there is a certain Rule thus: To the northward of it lies a high Cliff within the Land, somewhat whirish; when you see that Cliff you are sure you are pass'd the Point, whether you saw the Cape it self or no. Also on the Cape stands an old ruin'd Cloister or Chapel; and close by the Point a high Rock; by all which Marks

the Cape is to be known.

N. B. S.S.W. from Cape St. Vincent, distance 16 Ls. off to Sea, lies a dangerous funk Rock; 'tis fo near the Surface, that formetimes on a very low Ebb it is to be feen above Water: There is deep Water all about it 30 to 35, and 40 Fd.

There is good anchoring a little to the castward, almost useder Cape St. Vincent, in a small slindy Bay, where is 20 ka. Water, and secure from N. and N.W. Winds: And a little sare ther, under a second Point, is good riding in another little Bay, in 14 and 15 Fa. secure from W. Winds.

Here the Shore trends away callward, being the S. Coall of Algarve; and from the Southward Cape, which is the westermost Land of Algarve, to Paro, or Cipe Santa Maria, is E. a little foutherly, distance 20 Ls. Between he Lagos, or Laves, and Villa Nova: Lagos lies more northerly in the Bay; the Course therefore from the Cape is E. by N. distance 6 Ls; 'tis a small Tide-Haven, but they have a good Road in the Bay, and whole Fleets sometimes ride for shelter 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 Lagos diffance 4 Ls. 'tis a better Haven than Lagos, and you have 4 to 5 Fa. within the Harbour before the Town; but you must not go in without a Pilot.

From the Mouth of this Haven to Faro is due E. 12 Ls; there is a Light-house, or Terra del Fuozo, upon the Strand, to guide Ships to the Haven's Mouth; but if they would go in, they must have help, the Pilots come presently off. The Point of Land at the Entrance is call'd Cape Santa Maria. It is a low sandy Point running out into the Sea, so low, that you cannot look to above the Sea.

the Rock scarce 7 Foot. Cape Rocq is a great Point running out into the Sea, is exceeding high, and to be seen far

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East of Caseais is the Point of St. Julian, or St. Gilian, upon which is a high Fort guarding the Entrance into the Port of Lisbon; this Point shoots far out into the River, so that the Northern Channel goes in under the Mouth of the Cannon. Here the Ships take Pilots to carry them up to Lisbon, which

is about 5 Ls. from Cafeais.

From Cape Rocg to Cape Spiebel, or Cape de Fitcher, is 10 Ls. the Course S.E. by S. There is a high Tower upon the Shore, and the Land it self is very high; the Castle of Sezimbre is also a Mark for this Point, especially for the Road under it, where is very good anchoring in 15 to 16 Fa. Between the Mouth of the Tagus and this Point is the Opening of a little River, call'd Rio de la Daposata; it makes a small Haven at the Entrance into the Sea, but 'tis barr'd up with Sand, so as no Vessel of any burden can go in.

This Cape Spiebel is better known to the Sailors by the Name of Setuval Point, or St. Obes Point; the Haven is noted for the vast number of Ships which lade Salt there; it lies from the Point due E. distance 10 Ls. before the Mouth

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Sailing Directions for the Coast of Spain, from A Guadiana, to Cape Dragon on the

MONTE, or Ajamonte, makes amends to the whole Country for the Defects of their Havens; it is fituate on the E. Bank of a Branch of the great River Guadiana. which parts Spain from Portugal, and is the first Port in Spain: 'Tis a noble fine Haven, and a deep Bar, distance from Tavira 5 Ls. E.N.E. 'Tis without Comparison the best Haven on this Coast: The Entrance has 3 Fa. at half Flood, and goes in N.W. There are some Shoals before the Haven, for which Reason Pilots are necessary.

Lepe lies from Amonte 7 Ls. E by N. the more known Name of it is St. Michael's Haven; 'tis a barr'd Port also, and the Bar so often shifts, and is so uncertain, that you must

by all means take a Pilot.

From hence the Coast pushes out a little, and goes away E. by S. to Palos, distance 7 Ls. Here you sail into the great Condest, an inland Water, well known in the Country; but the Entrance is difficult, and must be referr'd to Pilotage. The

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In 14 and 15 Fa, feeing from W. Winds.

Here the Shore trends away eathward, being the S. Coast of Algarve; and from the Southward Cape, which is the westermost Land of Algarve, to Faro, or Cape Santa Maria, is E. a little southerly, distance 20 Ls. Between lie Lagos, or Laves, and Villa Nova: Lagos lies more northerly in the Bay; the Course therefore from the Cape is E. by N. distance 6 Ls; 'tis a small Tide-Haven, but they have a good Road in the Bay, and whole Fleets sometimes ride for shelter 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 Lagos distance 4 Ls. 'tis a better Haven than Lagos, and you have 4 to 5 Fa. within the Harbour before the Town; but you must not go in without a Pilot.

From the Mouth of this Haven to Faro is due E. 12 Ls; there is a Light-house, or Terra del Fuozo, upon the Strand, to guide Ships to the Haven's Mouth; but if they would go in, they must have help, the Pilots come presently off. The Point of Land at the Entrance is call'd Cape Santa Maria, 'tis a low sandy Point running out into the Sea, so low, that you cannot see it above 4 to 5 Ls. off to seaward. Under the Hummock upon this Point lies the Town of Faro.

N.E by E. from Faro, distance 6 Ls. lies Tavira; 'tis a simall Haven, and the Entrance so shoaly and the Sands so often shift, that they are no way to be trusted to; and the Port is

therefore much less us'd than it would otherwise be.

N. B. This is the last Port in the Dominions of Portugal, Santa Maria being nor teckon'd a Port, nor the Haven of any use.

Spain, from Ajamonte at the Mouth of the River e Dragon on the Coast of Rousillon.

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s away E. the great intry; but age. The Land from hence W. is call'd the Rodugn, because of the red Sand-hills of which it is full. Here goes in the Haven of the Saltees, and the River which goes N.W. to Odyr.

From the Mouth of the Guadiana at St. Michaels, to the Mouth of the Guadalquiver, which we vulgarly call the River of Seville, or of St. Lucar, is 17 Ls. the Course S.E. by S. The red Sand-Iulls mention'd above, reach all along this Coast, till the Town of St. Lucar is in fight.

Between these two is the Haven of the Saltees, mention'd above; a difficult Place, and those who go in there, must take a Pilot.

This great River of Gnadalquiver, comes down from Seville, and is navigable to far for good Ships. The Galleons from New Spain used formerly to unload there. This Water requires a Pilot, nor do any rich Ships go up without one.

The S. Point of the Entrance into this River is call'd the Land of Sibiona: From hence to Cadiz the distance is 8 Ls. S.E.

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in a strait Line cross the Bay, not about by the Shore, in which are divers other Ports, Havens and Towns, as Rotta, Port

St. Marys, and others.

To enter the Bay of Cadiz. you must go right with the Porques, within two Cables length of them; they lie to the N. of St. Sebastian: Run thus in 6 to 7 Fa. till you come before the Port of Cadiz, and anchor in 8 to 15 Fa. as you please.

In this Course you must be careful of the Sand call'd the Diamond, upon which is a sunk Rock, and very dangerous; it lies 2 Miles N. of the Porques: There is but 3 Fa. upon it

at half Flood. The Marks to avoid it are,

1. Bring St. Katharine's Chapel, which stands upon the N. I and, to be E. from you, a little northerly, then you are

thwart it; the Puntal bearing also S.E. by S.

2. Other Marks are, St. Mary's Church over the End of Cadiz, or a Cloister which stands at the End of Cadiz, and a little House on the Hill over the Chapel, which stands to the westward of Pert St. Mary; then you are thwart the Diamond.

3. Set the two Hills, which are fouthward of the way to Sheres, but a little afunder, and yet keep them from coming

together; then you go clear of the Rock.

To he before Cadiz in the Road, you should anchor so as to have the *Puutals* bear S. from or near it, according as one lies near the City. To the S. of Cadiz lies a sunk Rock; come no nearer to it than 7 Fa. The W. side of the Island is all soul, no anchoring near it: The Bay lies from *Rotta* to Cadiz in breadth 5 Miles, and much the same between it and St. Marys: The depth between the *Diamond* and the N. Shore of the Bay is from 5 to 8 Fa. If you would go into the Harbour behind the *Puntals*, or into the Creek, you should take a Pilot.

S.W. from the Point of the Town of Cadiz, and a little less from Barbace Point, lies the Island St. Pedro: In the way between lies a Rock under Water; but in going S. for the Straits Month, you go without it all.

From the Bay of Cadiz to the Streights, you go away S.E. to Cape Trafalgar, call'd by our English Sailors Travel de Gar; the Course from Point Sebastian W. of the City of

Cadiz, is S.S.E. the Distance 9 Ls.

To go about into the Channel of the Streights Month, you must give the Cape a good Birth, to avoid the Spanish Coast which is foul. W. by S. from Tariffa there is a shoal Bank 2 Ls. to 2 ! into the Sea, where is 8 to 10 Foot Water; you may know it by the Breach of the Sea upon it when it blows hard.

Being thus without the Cape, with a S.S.E. and S.E. by S. Course, you will make the *Barbary* Shore, just about thwart

of Tangier, lying in a great Sand-Bay.

From Tangier to Apes-hill the Course is E.N.E. but to 64! thro' the Streights Month, whether for the S. or N. Shore, the right Course is E. by N. mid-Channel, or rather towards the Course of Spain.

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s Mouth, you Spanish Coast is a shoal Bank of Water; you when it blows

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because the easterly Winds generally come with such Squauls and Gusts, from the high Hills of Gibraltar behind the Town, that you will be ill able to get out of the Bay on that side.

Being bound from the eastward out of the Streights, and keeping on the Spanish Coast, observe to bring the Hill of Gibraltar against the high Land of Barbary: For some, mistaking the slat low Land to the N. of St. Anne's bill for the Opening of the Streights, and running into the Bay upon that Supposition, have lost their Ships by losing their way.

N.N.E. from Gibraliar, distance 8 Ls. lies Estepona: There are several Light-Houses or Fire-Towers on the Coast between, to give notice of Enemies in the Bay: There is also good anchoring on all the Coast between, if not too near; and if the Winds do not blow too hard from the E. or S.E. At the sirst Tower from Gibraltar you may anchor in 25 Fa. Gibraltar bearing S.S.W. Here you have the best Road for a Levant, to run out with thro' the Streights. At the second Tower you may ride in 20 to 22 Fa. and there you may water on shore with great Convenience; the Ground being low before Estepona you may anchor in 14 Fa. but there is no Haven, Creek, or River; neither is there at Mirabelle, which is the next Town on the Coast, distance 6 Ls. N.N.E. from Gibraltar. There are sive Watch-Towers on the Coast between Estepona and this Place.

On the Shore going to Mirabelle, are two great Packhouses, as the Dutch call them, or Ware-houses, and a square Watch Tower on the E. side of them. If the Gate of the City appears between the Ware-houses and the Tower, you may anchor in 9 to 10 Fa. but not right before the Town, there the Ground is not good: You may water also to the castward of the City with very good Convenience.

E.N.E. from this City, distance 8 \(\frac{1}{2}\) Ls. lies Cape Malaga, being the westermost Point of the Bay of Malaga. Between them lies Fangerola, a small Place without any Road near it: To this Place the Coast is still full of Watch-Towers, built, as is supposed, to prevent the Rovers of Barbary from making any Descent in the night: They all serve for Sea-Marks also.

From Cape Malaga, or as some call it Cape Moll, to the City of Malaga, the Course is N.E. distance 3 Ls. This Coast all the way is a fair Strand, with good riding in 10 to 12 Fa. The City is known by two strong Forts, one co the E. side, and two Walls running down from it, to another Fort by the Sea-side more southerly.

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 same clean Ground extends E. or E. by N. to Velez Malaga, distance 7 Ls. This City stands a L. from the Sea; and on the Shore are several large Ware-houses, which look like a Fortification, and where the Ships load and unload. W. from those Ware-houses, the City bearing E. from them, you may anchor in 8 to 12 Fa. good Ground; by anchoring thus, you avoid a Bank which runs out into the Sea a little W. from the Watch-Tower: But run along Shore, and come no

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If you are to go thro' in the night, keep to the Barbary Coast, because that is clear, whereas the Spanish Coast is rocky and foul: If you will go on the Spanish side, you must go close by the Shore, and run between the Island Tarissa, and the foul Grounds which lie off that Island, or keep off enough so as to run without them.

E. of the Island Tariffa lies Cape Cabrita, distance 5 Ls. being the westermost Point of the great Bay of Gibraltar: A little westward of it, over-against the Hill of Gibraltar, is good riding for 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-house upon the Point; and a little to the westward of it is a fair Strand: There you may ride smooth from the western Swell of the Sea, which comes

in upon any Storm in the Ocean.

Thwart Cape Trafalzar is a Rock under Water, 1 L. from the Shore; there is but 9 Foot Water upon it: There is a good Channel between it and the Shore. Also W. by S. from the same Island lies a whole Ledge of Rocks, much about the same depth under Water; they are perceived in soul Weather by the Breach of the Sea upon them: But at the E. end of the Island is a good Road safe against easterly Winds, and 13 to 20 Fa. clear hard Sand; but you must not anchor nearer to the Island than 13 Fa. the S.E. Point being soul. The best 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 distance from the Shore.

Between Cape Cabrita and the Island Tarissa there is a Bay, and in the Middle of it a Light-house, against which you have good Ground in 12 Fa. and a good distance from the Shore; all the way from the Island to the Cape is a clear Strand, and no-

thing dangerous but what is in view.

To fail from the Road of Gibraltar, in order to go out of the Streights into the Ocean, if you have the Wind Easterly, bear up before it towards the W. Shore of the Bay, and out along by it, tho it be a Lee-shore, till you get out of the Bay; Cit all

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All this Coast continues fair and clean quite to Almanucar, which is the next Port due E. from Velez Malaga, distance 15 Ls. 2 Ls. short of it stands 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 westward of a Rock, with

a Chapel on it.

E. from Alamnucar, distance 3 Ls. is Solebrenna, a small Town having a little Chapel adjoining: The Chapel stands upon a Mountain, with a small Island against it; by both which it is known from the Sea. To the W. of the Island is good riding under the E. Point of Almanucar Bay, where you are safe from E.N.E. Winds; all round the Island is good anchoring and you may run between it and the Main: Here you have 14 to 16 Fa. good clear Ground.

Two Ls E. from Sallebrenna, and standing half a Mile from the Sea, is Modril, a Town with two Churches, which makes some call it two Towns; there is also a sour square Tower by the Sea-side: This is no safe place to anchor in, especially if

the Winds blow from the S. or S.E.

From hence to Adra you have all the way a low plain Coast, lying E. and E.N.E. distance 12 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 Gibraltar Bay to Almeria, but that all Ships are bound to ride in open Roads, fometimes shelter'd and sometimes not, the Commanders should be careful to keep all things ready in case of Storms, either to carry out Anchors, or to slip, and run out to Sea.

N. B. Observe also, that the Noise of the Sea on this Coast oftentimes gives notice of a Storm, at least a Day and half before; but when it comes, you have nothing to trust to but good Ground-Tackle: Yet if the Wind be not directly upon the Shore, you cannot be in much danger.

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Directions for Sailing on the Coasts of

From Cape de Gat to Almazaron is 17 Ls. the Course N.E. by N. it lies in a great Bay, in which there is a Castle, having a Rock to the eastward standing high out of the Water, with a Watch-Tower upon it: And from this Almazaron to Cartagena is 6 Ls. E.N.E.

Cartagena is an open Bay and Harbour, with a Mole before the Town, and a strong Castle: It is the first Place after Cadiz, where any mention need be made of a Pilot; but here

it is absolutely necessary.

The Harbour of Cartagena is known at a distance by the Island Combrera, which lies just before the Mouth of it, distance 2 Miles S.S.E. from the W. Point of the Harbour: You may run in between this Island and the Main, but you must be sure to keep the mid-way between them, for the Shore is soul on either Hand. On the N.E. side of the Island 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 sit: But a Wind off Sea brings a high Surge rolling in here.

E.N.E. from the Island is a little Place call'd *Port Genovez*, in which you may anchor in case of necessity, and with a small Ship: But keep to the Starboard-side in going in, for in the

mid-Channel lies a funk Rock very dangerous.

From Combrera the next Port of Consequence is Cape Palos, it lies E. by S. from Genovez distance almost 4 Ls. 'tis a low Point, compar'd to the Coast, which is generally mountainous. Off at Sea about two miles N. E. lies a little Island called Formigus, surrounded with Rocks both above and under Water, and therefore very dangerous. But the Island is as a Buoy to the rest, and by that which appears to warn Sailors of the Mischiers which are concealed: If you run thro' within the Island, take heed to keep to the side of the Main.

From this Cape the Coast falls off into a great Bay, and the Land trends away first due N. then N. by E. towards Alicant. In this Course 3 Ls. N. from the Cape, lies another small Island called Gross, surrounded also with Rocks and soul Ground: there is likewise a Channel between it and the Main, but 'tis narrow and dangerous, and no Ships care to run thro', neither should but upon extreme Necessity. You may anchor any where upon the Coast in this Bay, in 8 to 10 Fa. provided you are first past that Island.

From Gross you go away N.N.E. to Cape St. Paul, distance 12 Ls. and to the Island St. Paul, or La Gross, 5 Ls. so from Palos it is 17 Ls. distance, the Course N. by E. easterly: but the Island Gross being a little more to the N. makes the Course vary near a Point: short of Cape St. Paul, and distance 3 Ls. S.W. by W. is a Castle call'd Guardamoor, and a Tower call'd La Matta, in a deep Bay where they load Salt. The Ships generally ride off of another Castle call'd Lugar Nova, while they take in their Loading, this Castle being under the Lee of the Cape, and in some places better Riding.

If you go to La Matta, keep to the southward under the Shore in 4 Fa. till you come to the Point over against Isle St. Paul: when you are past the Point, you will see the Castle of Lugar Nova under the Point. Bring the Castle to bear N.E. from you, and you are in the best of the Road: Come to an

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From the Cape to Alicant is 10 Miles, the Course North, making a great Bay. Also when you come without all, you must avoid the Island by all means, because of a Ridge of Rocks which lie out S.W. by S. into the Sea; but you may run over them, if you keep a little off, in 7 Fa. You may on any Emergence run between the Island and the Main; but 'tis better to avoid it, because of the Rock under Water in the Passage mention'd above.

From the Island you go away N. as before to Alicant, keeping as near the Shore as you will, only not in less than 4 to 5 Fa. If you would anchor before Alicant, lie right before the Mole, so that you may see into the Town thro the Head Gates; there you will have the best Ground, and 5 to 7 Fa. or you may keep farther off in 12 to 13 Fa. the E. Point of the Mole bearing from you E.N.E. This Road is secure 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 Island of St. Paul. The Castle stands 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 French; but the Mountain is the like Mark, tho the Castle be in its Ruins: The Road is just before the Mole.

A Wind off Sea makes this Road sometimes very uneasy, the Sea going very high: but the Ground is good, and the height of the Mountain checks the Wind; or, as the Sailors say, The Land refuses the Wind.

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 Mount Benidorme, with an Island of the same 17 Miles. There are several little Towns and Fire-Towers on the Coast between, but no considerable place; you may run between the Island and the Mount. A little to the W. of the Mount lies Villa Jovosa, a little Town, from whence some Charts call the Island Isle Jovosa: you have a good Road there in 7 to 10 Fa. secure from a Levant.

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 Bay: 'tis an excellent place for Watering, where a whole Fleet may ride in Safety, and water with the greatest Expedition. N. E. The English Navy water'd here in two days in the late War.

E. of Altier, and just without the Extent of the Bay, is the little Town of Calp in another little Bay, where is a good Road in 12 to 15 Fa. and where several Ships load Fruit.

From the Isle of Bendoan N.E. distance 5 Ls. is a high steep Point call'd Cape St. Martins: you see this Cape 8 or 9 Ls. off at Sea; but the Point is so high, the Shore running slat out before it, that it endangers Ships running on Shore in the Night: for which reason steer more easterly, and come no nearer in the Night, or in dark Weather, than 8 to 10 Fa.

There are 3 Light-houses (not Fire-Towers) on this Cape, not far from one another: and beyond the Point to the east-ward lies a little high Island, but there is no passing between that Island and the main. Two Ls. from this Cape is Cape St.

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fouthward of the Castle S.S.W.

This Road is secure from NE, and S.W. Winds: La Matta

lies to the S. of the Castle Guardamoor.

N. R. 'Tis only a square Tower, which they call Fire Towers, we should call it a Light-house; but the Difference is, that those Fire-Towers are for alarming the Country, and Light-houses are for directing the Sailors: but thole serve also for both. N. B. There is no Town at La Matta, nor any good Riding; and therefore it is that the Ships go away to Lugar Nova. But if you are in haste, and can be dispatch'd, you may venture, as you fee the Weather settled or not settled; you may anchor in 8 to 10 Fa. near the Tower. N. B. If you go up to the Round Top, you may see the Salt lie in Heaps on the Land.

All along this Bay, and from Cape Palos to Alicant, the Land is mountainous, and so high, that in the Night you may be deceiv'd by the height of the Land, and think it farther off, and so be in danger of running ashore; you must therefore keep a good Look-out. The Shore it felf is very good, a fair smooth Strand, bold and safe; and you may sail in 12 to 14 Fa. all the way, within Call or hearing of the Land. distance from Palos to Alicant is 21 Ls. the Course N.N.E. that is, 17 Ls. to the Isle of St. Paul, and 4 more to Alicant.

The Island of St. Paul is call'd in the Charts Plane Island; it lies near 2 Miles from the Cape; in the middle of the Channel between there is a dangerous Rock under Water: If you go thro' the Passage, keep nearer the Cape than the Island, and you may avoid it, but then you must 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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E. of Altier, and just without the Extent of the Bay, is the little Town of Calp in another little Bay, where is a good Road in 12 to 15 Fa. and where several Ships load Fruit.

From the Isle of Bendoan N.E. distance 5 Ls. is a high steep Point call'd Cape St. Martins: you see this Cape 8 or 9 Ls. off at Sea; but the Point is so high the Shore running flat out before it, that it endangers Ships running on Shore in the Night: for which reason steer ino a casterly, and come no nearer in the Night, or in dark Weather, than 8 to 10 Fa.

There are a Light-houses (not Fire-Towers) on this Cape. not far from one another: and beyond the Point to the eastward lies a little high Island, but there is no passing between that Island and the main. Two Ls. from this Cape is Cape St. Antonio, lying N.W. in a little deep Bay, where is the Town of Xobea, or, as we call it, Sheva, and some Light-houses or Fire-Towers: there is a good Road, and 12 to 14 Fa Water.

There is a Light-house on the Cape, and several Windmills near the Town; the Road is before the Town, where the Ships lie close to the high Land on which the Mills are; where they ride with two Anchors to seaward, and a Head-fast ashore, 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 small Haven; 'tis a difficult Entrance, and this is the second place within the Straits where I would advise taking a Pilot; they come off to you as soon as you come about the Cape.

From this Point the next place of note is Grao, the Sea-port for Valentia: the Course is N.W. distance 17 Ls. There are the small Ports of Gaudin and Cullora between, but no good

anchoring at either of them.

The Town of Grao is small; the River of Valentia opens into the Sea within a quarter of a Mile of this Town, but there is not Water enough to carry a Pinnace up to the City: the Road of Grao is good, and you have 7 to 8 Fa. but no shelter from any Wind, the Shore being low, and the Country plain and level: there goes a great Sea sometimes in this Road, and Ships are in danger of foundring as they ride.

N. from Grao lies the City of Monoedra, distance 8 Ls. little to the N. of it stands a Light-house close to the Sea-side; and N.N.E. from thence is Cape Orope sa distance 9 Ls. To the westward of the Cape is a very good Road secure from a Lcvant: The Marks to know the Point by, are a round Tower or Castle on the Point it self, and a high Hill a little from it on There is nothing confiderable upon the Coast the W. fide.

between Grao and this Point.

N.F. from the Cape, distance 5 Ls. lies *Peniscola*; there is a good Road in the Bay close to the E. end of the City, with about 10 Fa. Water; but here, as in other places, if the Winds are off Sea, you are in danger of running ashore, the Ships therefore ride here with 2 Cables off to Sea, and a Head-sast ashore. On the same Coast, and in the same Course, dist. 2 Ls. lies the little City of *Bene-Carlo*, fallly called by our Pilot-Books *Benecalon*; here is no good Road, and therefore the Ships chale to lie at *Peniscola*.

E. from this City lies I'merora, distance a small L. here is a Fire-Tower close by the Sea; to the eastward of the Tower lies a san Strand for . Ls. which is called the Alfrague of Tortoft: On the W. end of it is another Tower. Here the great River Ebro opens it self in several large Mouths into the Sea; but the Current is so rapid, and the Tide rises so little, that it prevents any considerable Navigation into the River.

The Bay of Alfrague makes this Point be an Illand, the River coming in on the W. fide; there is good anchoring almost in any part of the Bay, except on the Island fide, where the Land is low, and the Water shoal: but keep to the Main, and you have 6 to 8 Fa. The Land upon the Main here is so high, that its seen 15 Ls. to Sea; the best of the Road is off

of the old Monasterv in 5 Fa.

From Alfragu the next Place is Cape Ampulla, distance - Ls E.N E. and N.N.E. the Coast between is all slat, and low, full of Salt Ponds, and marshy or findy Grounds. Some of our Pilot-Book Writerstell us, the River of Alfrague runs out into the Sea here, but is not navigable except for Boats; whereas this is the great River Ebro which riles in Guipulton within 10 Ls. of the Bay of Bisley, that traverses almost all Spain, and after a Course of above 700 Miles, and receiving all the Rivers of Catalogia and Arragon, empties it self-

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Sailing Directions for the Is



HE Isle of Ivica lies E. northerly from Cape St. Martin, distance 12 I.s. There lies a great craggy Rock call'd Beleran, off of the westermost Point of the Island, and another call'd Comiger off of the NW. Point; but about the W. Point, and clear

of the Rock, is a very good Road: the Coast between them stretches out N. by E. and S. by W. 5 Ls. and about the Island from Comegar to the N. E. Point E.N. E. and W.S.W. distance near to Ls with good anchoring in several places between.

At the N.E. Point is a large fandy Bay, and very good Ground; but on the E. fide there is a funken Rock, which is teen by the Breach of the Sea on it: between the Rock and the Ifle of Togomago is 16 Fa good Ground; Togomago is a finall Island about Gunshot from the Point, and the Road as above is between them. From this E. Point to the S. Point the Land goes away S.W. and S.W. by S. distance 9 to 10 Ls. The Store is feath but there is a Bay call'd St. Hilling, in which is

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Sailing on the Coasts of Spain.

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here into the Sea, in 4 Channels, and is so rapid a Stream, that no Boats can stem the Force of it; and this is the main reason why it is not navigable, otherwise good Ships might go up to Tortofa.

The City of Tortofa lies up this River, distance from the Sea about 4 Ls. there is good anchoring behind Ampulla in 6 to 7 Fa. From hence the Coast goes away N.E. to Salo, distance 7 Ls. There are several Villages and sandy Bays upon the Shore between those two, but none of note, nor any Harbour

for Shipping.

Salo is a finall low Point with a Fire-Tower or Light-house at the Extremity of it: it appears as you fail by like an Island, and is not discovered till you come very near it. There is a tolerable good Road to the W. of the Point, in 8 to 9 Fa. good hard Sand. On the other side, E. from the Point, distance a little above a Mile, lies the City of Terragona, situated on the higher Ground and well fortify'd; 'tis no Port for Shipping, but the Trade is carry'd on at Villa Nova, a noted Port standing close to the Sea: 'tis true, here is no Harbour, but here is a good Road (that is) good anchoring, having 7 to 9 Fa. and good hard Sand: but 'tis an open Road for all Winds except just off Shore. They have no Mole or Heads, but haul their simall Vessels upon the Beach before the Town, where they lie dry. The Coast is low, and the Land within high.

Barcelona, which lies E from Villa Nova distance 9 Ls.

tho a great City, has no River or Haven, only a Mole: the feveral Ridings near the Mole, as also the going into it, are only for small Vessels and Galleys; the large Ships ride eastward from the Lanthorn, where there is a very good Road in 15 to 20 Fa. whereas a Galley's length from the Mole there is not above 6 to 7 Foot, and in the Mole about 10 to 12.

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there are also two small Islands, or rather Rocks, on the E. side of the Bay. Near those Islands there is a great sink Rock, which mult be avoided with great Care: In stormy Weather the Sea breaks on it with great Violence, and the Rock it self appears in rough Weather: There is a little Crook to the westward, in which there is a great depth of Water, but no River comes in there.

S. of the Bay, distance 3 Ls. is the City of Ivica: there is a good Haven, but the Entrance is foul and difficult, and a Stranger must have a Pilot if he is bound in, or else ride without the Bar.

SS.E. of the fouthermost Point of Ivica, distance 2 Ls. is the Island of Formentera: you may fail between it and the Point on the Main, but you must avoid a Shoal which lies from the Point. Keep in the middle of the Channel, there you have 5 Fa. Water clear Ground, and to clear Water that you may see the Bottom. There is a high Tower on the 1ste of



Martin, diffance 12 Ls. There lies a great craggy Rock call'd Beleran, off of the westermost Point of the Island, and another call'd Comiger off of the NW. Point; but about the W. Point, and clear

of the Rock, is a very good Road: the Coast between them stretches out N. by E and S. by W. 5 Ls. and about the Island from Comiger to the N E. Point E.N E. and W.S.W. distance near to Ls with good anchoring in several places between.

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R OM the eastermost Point of Ivica to the westermost Point of Major ca is N.E. by N. dist. 14 Ls. Just upon the Point of Major ca is N.E. by N. dist. 14 Ls. Just upon the Shore one lattle Mile: You may fail thro' within it, or ride tase under it in 4 to 6 Fa. good Ground. S.E. from the Point, distance 8 Ls. lie 3 Islands, with a Tower upon the eastermost of them; they lie behind a small Point of the main Island, and beyond them there is a Bay, in which there is a Light-house (really such) where a Fire is always kept in the Night. E. from the Light-house is the Haven call'd Porto Piu, where you ride safe from any Winds, with one anchor to seawards, an' two Head-sasts ashore.

A little S. of this Haven is the City of Minorca: there is a flook Rock in the Fair Way between them, having 13 Foot Water upon it; yet the Water is so clear, that you may see it as you fail by it.

They have built a new Mol. at the City just by the Entrance into the Haven; on the W. side of the Haven is a white high Tower, and you stand into the Haven between the Tower and the Mole-bead. When you are in, go forward right to the

Sailing Directions for the

ROM Cape Termentelle, the most northerly Point of Majorea, to Cape Bajole, the northermost Cape of Minorea, is N.N.E. dist. 10 Ls. Thence to the S.W. Cape of Minorea is 6 Ls. S.by E. Between-them are 2 safe Bays, with good Riding, secure from N. Winds, and all others to the S.S.W.

a great craggy flermost Point Comizer off of oint, and clear between them bout the Island 7.S.W. distance es between.

and very good took, which is e Rock and the mago is a finall oad as above is Point the Land 10 Ls. The ia, in which is which is clean on the Strand;

of the Bay. Near those Islands, or rather Rocks, on the E. fide of the Bay. Near those Islands there is a great simk Rock, which must be avoided with great Care: In stormy Weather the Sea breaks on it with great Violence, and the Rock it self appears in rough Weather: There is a little Crook to the westward, in which there is a great depth of Water, but no River comes in there.

S. of the Bay, distance 3 Ls. is the City of Ivica: there is a good Haven, but the Entrance is foul and difficult, and a Stranger must have a Pilot if he is bound in, or else ride without the Bar.

SS.E. of the fouthermost Point of Ivica, distance 2 ½ Ls. is the Island of Formentera: you may fail between it and the Point on the Main, but you must avoid a Shoal which lies from the Point. Keep in the middle of the Channel, there you have 5 Fa. Water clear Ground, and so clear Water that you may see the Bottom. There is a high Tower on the Isle of Formentera, and another on the S. Point of Ivica.

Tions for the Island of Majorca.

the westermost Ls. Just upon distance from by within it, or S.E. from the ower upon the int of the main nich there is a ys kept in the ll'd *Porto Piu*, anchor to sea-

rca: there is a g 13 Foot Wa-1 may fee it as

y the Entrance is a white high the Tower and d right to the Key, which lies before the City: 'tis a great Bay rather than a Haven, and you have 10 to 11 Fa. within the Mole, good Clay Ground.

S.E. from the City, distance 5 Ls. on a white Point stands a high Tower, to the S. of which is the Island Cabrera: this is one of the southermost Points of the Island. From Majorca to Cabrera is 7 to 8 Ls. the Coast hes S. by W. From this Point to the other S. Point behind Cabrera, the Course is S. by W. distance 2 ½ Ls. 'tis a fair clear Coast, and there is a good Road in 12 to 13 Fa. The Channel is good between Cabrera and the Point, about 1 ½ L. over, and 7 to 15 Fa. Water: also there is a good Road under the Isle Cabrera on the W. side of it

Four Ls. beyond the S. Point, to the S.W. of it, lies Port St. Pedro; 'tis a good Harbour, and no Wind can hurt you in it except a S.E. There is an old ruin'd Castle on the Larboard-fide of the Entrance.

The S.E. Coast is clear and good, all the way to the easter-most Point call'd St. Pedro, and several little Bays where 'tis safe Riding.

Directions for the Coast of Minorca.

therly Point of rmost Cape of ce to the S.W. are 2 safe Bays, all others to the From the S.W. to the S.E. Point is 10 Ls. E.S.E. Near this Point lies the Island call'd the Laire de Maon: there is a good Channel between the Island and the Point, upon which is a white round Tower, formerly a Fire Tower. S.W. from it is a finall funk Rock.

Directions for Sailing on the C

On the S.E. end of the Island, distance from the Laire de Maou 3 Ls. goes in the samous Harbour of Port Maon, vulgarly Port Mahoon; formerly Spanish, now English: the Entrance into it must be referred to the Pilots, especially since the new Additions and Fortisications added to it by the English Government, by which the Marks and Buoys also are altered.

The S. Coast of the Island trends away W.N.W. and E.S.E.

in length the Haven you may fi in the Entivery good Harbour 1 Ifland.

Sailing Directions for the Coast of France in the Mo the Frontier of Rousillon, to the Ports of Nic

APE Dragon is the utmost Boundary of Catalonia W. to the seaward. It lies from Palamos N.E. by N. distance about 4 Ls. From Cape Dragon the Coast falls away again to the N. and lies to Cape Creos N. by E. distance 10 Ls. There is a wild Road between, and nearest Cape Creos, but no Ships anchor there except in great necessity, the Sea going generally very high: But under the Cape on the N. side is good riding, opposite to the Village of St. Sebastian, where you have 15 to 20 Fa. good hard Sand. There is a round Tower of Stone upon the Cape, by which it is seen 7 to 8 Ls. from the Shore.

Farther to the northward you have feveral good Roads, as particularly one call'd the Road ac l'Anfon, and another call'd l'eners; in both which you are fafe from westerly and Northwesterly Winds, and have from 6 to 8 or 9 Fa. Water, and ve-

ry good Ground.

From this Cape Dragon begins what they antiently call'd the Sea of Narbonne, and the French the Gulph of Narbonne: You have upon all the Coast of it good Anchor-ground and good Shoalings, but no Harbours or Trading Ports, except the Ports of Roses and of Cette. In all this Gulph you have a great depth of Water, and a very dangerous Surge of the Sea, quite from Cap Dragon to the Isles of Hieres: Nor is the Motion of the Sea here, like what it is in other Places; but if it blows any thing hard, especially from off the Sea, that is, from the S. or a Levant from the E. and S.E. the Sea runs fo high, and with a chopping fbort Wave, and breaks fo furioufly, that it is very fearful, and good Ships often founder in it: It feems at a diffance as if there were some great Rocks which lay sunk under Water, upon which the Sea dashing by the Force of the Wind should fly and rage in that manner by the Recussion of those Rocks; but upon the most exact founding the Coast, 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 Caufes, and only mention the Fact, for the Direction of those that fail this way, to avoid the Danger of it as much as possible.

The first Port of note eastward from the Gulph of Narbonne is Marfeilles, which lies from Cape Dragon N.E. distance about 40 Ls. This Port is very fingular for the Marks leading to it: It lies in a round Gulph or Bay about 1 ± L. deep; and the two Points of the Bay lie E. by S. and W. by N. In the

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in length to Ls. or more. On the N. side of the Island lies the Haven of *Porto Farela*, with a Hill on the E. side of 15; you may sail into the Haven with the Hill: you have 15 Fa. in the Entrance and 6 to 7 Fa. at the Anchoring-place: 'tis a very good Haven, and convenient for shipping: but the great Harbour is enough, there is no need of any other in this Island.

ance in the Mediterranean, from Cape Dragon on e Ports of Nice and Villa Franca exclusive.

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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 also call a Pilot to assist you. There are several Castles and Forts which command the Entrance, and you steer sometimes on one side, sometimes on the other, close under the Guns of the Forts, for which there are Marks to direct: But as that also is Pilots Work, I leave it to them. N. B. The great Castle stands to the S. of the City.

The easterly Point of the Bay of Narfeilles is call'd Cape Crusetta: From thence the next Point is Larita, which lies E.S.E. from Crusetta, distance 7 Ls. Larita is a small Town on the Coast, with a little Creek rather than a River. The Entrance admits no Ships of burden; but there lies a small Island before the Place, where the Ships ride, and which

makes (as it were) a Harbour to the Place.

From hence the Coast lies in the same Course, and you go on E.S.E. to Thoulon, distance 18 Ls. but from Marfeilles to Thoulan directly is only 14 Ls. The Harbour of Thoulan is known, and the Entrance fair; but as there is a large Bay before you come to the Port, and many Points, Rocks and Shoals in the passing to the Port, and also some Disficulties in going in, 'tis fufficient to refer to the Pilots. The South Cape which you pals as you go from the Coast, is call'd Cape Thoulon; and there are good Roads within the Cape W. in three feveral little Bays, and one very large, where the biggest Ships may ride under shelter from westerly Winds, whether to the S. or N. of the W. The Entrance into the Bay of Thoulan is beyond thefe, and lies in S.W. and N.E. On the Starboard-fide is the great old Castle, call'd Castle Thoulon: There you may take a Pilot, or if you are bound into the Harbour, you may pass the Caftle first, keeping near the fide where it stands, 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 Isles of Hieres, or Eres. They are four or five Islands, making a Circle, with several Openings between them; and the hollow within forms a Basin or Pool; it is so surrounded with the Islands, that it must necessarily be an excellent Harbour, especially the Ground being good, with a moderate depth of Water: 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 Thou-

thing hard, especially from off the Sea, that is, from the S. or a Levant from the E. and S.E. the Sea runs so high, and with a chopping short Wave, and breaks so suriously, that it is very searful, and good Ships often sounder in it: It seems at a distance as if there were some great Rocks which lay sunk under Water, upon which the Sea dashing by the Force of the Wind should sly and rage in that manner by the Recussion of those Rocks; but upon the most exact sounding the Coast, there are no Rocks sound, nor are there any Over-salls or Deeps and Hollows, but an even fair Bottom. So we leave enquiring into the Causes, and only mention the Fact, for the Direction of those that sail this way, to avoid the Danger of it as much as possible.

The first Port of note eastward from the Gulph of Narbonne is Marseilles, which lies from Cape Dragon N.E. distance about 40 Ls. This Port is very singular for the Marks leading to it: It lies in a round Gulph or Bay about 1 ± L. deep; and the two Points of the Bay lie E. by S. and W. by N. In the Mouth of it, and a little more to the eastern Point, lies a Rock and a rocky Shoal, on which there stands an old Tower, by which you will be sure you are in the Fair Way in; you must steer as you have the Wind, either on one side or the other; the Ground is good, only be sure to go to windward of the Rock and Tower: The Channel is deep enough, for

you have 20 Fa. at least on either side.

If you go in on the E. fide of the Tower, your Course to Marfeelles 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 Course N.E. lie three Islands; the first call'd Caga Stracia, the second Lilia, these lie close together; and the third (far-

ther in) Caftle Dito.

These Islands make the Course to Marsfeilles sase, and the Roads easy: There are clear Channels between them all, and safe going in: Also there is good anchoring under them all, to that you have many Roads to ride in before you go up to the Harbour. If the Weather prove dirty, under Caga Stracia you ride shelter'd from all Winds but an E. E. by S. and E. by N. Under Lista from all Winds but E. by S. and E.S.E. And under Castle Dito all but N.W. and S.W. and the Points between; so that you may shift your Road, and run from one safe riding to another, as the Weather shifts, and be safe, let it blow where it will.

The best Passage to the City is between the two first Islands and the third; you may go in between the third and the Main, but the Passage is narrow, and there are some Dangers in the way, as a sunk Rock, and two or three above Water; but in the Passage all is clear. You may ride also in the Bottom of the Bay, due E. and he there under the Shore S.E. from the City; from whence you may run along Shore, leaving two little Islands which are in the way, on your Larboard-side: In that Channel, tho narrow, you have 5 Fa. Water.

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From the Point call'd Cape Thoulon E. lie the Isles of Hierer. They are four or five Islands, making a Circle, with feveral Openings between them; and the hollow within forms a Basin or Pool; it is so surrounded with the Islands, that it must necessarily be an excellent Harbour, especially the Ground being good, with a moderate depth of Water: 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 therefore merit particular Directions for the careful Mariner in his going in or out; for here they do not usually take Pilots, but lie as is best for their purpose to go E. or W. The Names of the Islands are,

1. Robadin, the most westerly.

2. Polcoirola.

3. Porto Crofa.

4. Bovena, the most easterly.

5. Eres, or Hieres. Some will have this last and Robadin to be the same, and that the word Hieres, or Eres, is properly the Name of the City only; if fo, then they are but four in number.

Directions for Sailing into the Circle of the Isles of Hieres. and for coming to anchor among them.

The Island Robadin is join'd to a dry Cliff near the main Land, fo that you cannot fail between the Island and the Main. On this Island stands a Castle, and on the N. side of Poleoirola stands a Church, which you may see as you fail on the S. fide of the Island: When you fail thro' the Channel between Robadin and Polcoirola, you must be careful to thun a blind Rock or two which lie close to the latter. ven, and the Road before Hieres, lies N.N.E. and S.S.W. distance 2 Ls. You may fail near either side without danger, and anchor as well under Robadin as Poleoirola, or any where, for it's all good Ground.

East of Polcoirola is likewise a Channel large and wide, where you must fail in N. then the Road of Hieres bears N.W. northerly 2 I.s. from you; Betwixt Porto Crofa and

Bovena is no danger.

If you come from the castward, and defire to go in betwixt the Island Bovena and Cape Lard, you must beware * Q

of a Rock which lies a L. S. and by E. from the Cape; neither must you come too near the N. Point of the Island of Bovena, for sear of a small Rock which lies E. from that Point, as big as a Boat, and but just above Water.

Being got within the eastermost Island, you may run in W. then you have a black Rock on your Starboard-side, which lies E. from Cape Berganson, between which and the Main is good anchoring in 6 or 7 Fa. The Barks and Tartans stall

thro' here frequently.

Due W. of Cape Berganson lies a small White Island, on which stands a great Castle call'd Berganson Castle, and from which the Cape derives its Name: Along from this Castle is good Ground, till you are past the Hieres. You may anchor any where in 4 or 5 Fa. These Isles all together take up about 3 Ls. and reach from without W. by N. and from within about W. it is wide and deep.

From Cape de Larda to the Point on which the Cassle of B rzanson stands, the Course is W. by S. 4 Ls. in the Passage its very deep, but when pass the Point, you may anchor to the westward of the Cassle, in 12 or 14 Fa. It is a good Road

for a Levant.

From the Castle of Berganson to the Road of Hures, the Course is W. northerly 2 Ls. You may anchor before Hieres, either above or below the City, in 4, 6, or 10 Fa Water; in 10 Fa. you he half a L. from the Shore, it's all good Anchorground.

When coming from the eastward, and that you are past the Point of Berganson, then the City Hieres lies against a high Mountain or Hill: You may also see the Salt Mountains lie against the Water-side, with a few old Houses at the Foot of them.

These Isles of Hures lie on the E. side of the Gulph of Narbona, or Marfeilles: They are the first Islands that are

icen coming over the Gulph from the westward.

Cape de Larda is the next Point of Land upon the Main towards the Coast of Genoa: It lies from the E. end of the Isle Bovena N.N.E. easterly, dist. 3 Ls. There is a Fire-Tower upon it, the first we see upon this Coast; it is in the westermost Point of the Gulph of Treinal: Between the two Capes is St. Torp, a little Place in the Bottom of a Bay of the same Name. To go in there, keep the W. Shore a-board; and as you will see two Rocks in the way, about a long Mile E. of Case de Lard, leave them on the Larboard-side, and run between them and the Main. Within them you have 7 to 8 Fa. and without 15 to 20.

Sailing Directions for the Coasts of Italy, from I of the King of Sardinia inclusive, to the

Ast-North-East from Antibes lies the Harbour of L. sar Nice, or Nissa. This may be reckon'd the first than

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on the Main end of the Fire-Tower the wester-etwo Capes of the same board; and g Mile E. of and run bever to 8 Fa.

N. from Cape de Larda is a Creek and a little Bay, where you have very good anchoring fate from the NW, and S.W Wind: 'Tis a clean Shore, and you may fail by it in 8 to 12 Fa. As you go, you will fee a low crooked Point running out into the Sea, and a Bay behind or beyond it, call'd the Bay de Grimanle: Bring the Point to bear SW, and open the City of Grimanle close upon the Strand with two Castles, one opposite to the other; that on the lowest Ground is call'd St. Martin.

If you are bound into Trieval, take a Pilot, for there are feveral Rocks and Islands about the Entrance, which, unless you are acquainted, may be dangerous: Besides, in some parts of the Bay you cannot anchor, the Ground is so soft, the Anchors will hold no purchate. Indeed the whole Bay is a very indifferent place for Ships to ride in; for besides the loose soft Ground, if the Winds chance to blow E.S.E. or S.E. they bring in a very great Sea, and it's great Odds but you are driven on Shore: If you find this like to be, then as soon as you perceive a Levant begin to blow, prepare to be gone, weigh, and steer for the Isles of Theres, or go away for Thoulan.

Two Ls. from Trivul E.S. E. casterly, is a low Point with a Light-house on it: There is no Road at the Point, but about a L. farther E. is Cape Rosa, N. of which hes the Haven of Cannano, a very good Security for all Ships failing this way: The Land from Trieval Inther is all uneven and foul, and no riding any where.

To go into Cannano keep under the Shore E. by S. till you fee two little Islands which he before the Entrance of the Haven: You may anchor under the Castle Island, which is one of them, in 18 Fa. About a Gun-shot from the Castle to seaward, there is a Sand or Bank; when you are going in you have 30 Fa. When you are in, you lie with one Anchor in 8 to 9 Fa. and a Head-sast a-shore. You are safe here from all Winds, except a S.E. which blows right in: If you are not acquainted, fire a Gun, and the Pilots will come off to you, and carry you in.

From the Clotter Island to Cape Garago the Course hes E.N.E. There is a Light house on the Cape, and under it a fine clear sandy Bay: You ride well here in 8 Fa. free from casterly Winds. Within 2 Is of this little Bay to the northward, lies Antibes, a little City with a Castle: They have a very good Mole on the side next the Sea, but 'tis only six for small Vessels

Italy, from Nice and Villa Franca in the Dominions inclusive, to the City of Venice also inclusive.

Harbour of L. farther callward, is a much better Shelter in case of a Levant n'd the first than this of Villa França: 'Tis a very good Road, and there must be a reasonal Haven: not is there eved of a Pilot to you may come

upon it. The first we see upon this Coast; it is in the westermost Point of the Gulph of Treivul: Between the two Capes is St. Torp, a little Place in the Bottom of a Bay of the same Name. To go in there, keep the W. Shore a-board; and as you will see two Rocks in the way, about a long Mile E. of Cape de Lard, leave them on the Larboard-side, and run between them and the Main. Within them you have 7 to 8 Fa. and without 15 to 20.

Sailing Directions for the Coasts of Italy, from of the King of Sardinia inclusive, to

Ast-North-East from Antibes lies the Harbour of Nice, or Nissa. This may be reckon'd the first Port in Italy, and begins the Gulph of Genoa. Nice lies so near the Sea, that in stormy Weather it beats up against the Walls of the Town. From Cape Ga-

rapo it lies N.E. and is dift. 4 Ls. The Castle is a good Seamark, it stands to the S.E. of the Town on a very high Moun-

tain, you may fee it 12 Ls. out at Sea.

The Road is under the Cattle farther S.E. 'Tis but a wild Road at best, and in Case of a Levant is scarce sufferable, for which reason the Ships generally run into Villa Franca for Shelter in Case of a S.E. or S.W. Wind. In the Road the Ships

he with a Cable on Shore in 30 to 35 Fa.

Villa França lies E.S.E. from this Road of Nice, dift 1 Mile. It is in a large deep Bay, which is none of the eafiest to enter, or of the latest when you are in; which is occasion'd by the high Points at the Entrance, and the Hills on both fides when you are past them, all which bring sudden Gusts and Squalls, and then Calms as fudden and equally dangerous; but when you are pass'd these Difficulties, and come up to the Town, which lies on the W. side, you have a good safe Road in 9 or 10 Fa. When you ride before the Town, the Month of the Bay bears S.E. by S and the E Point S.S.E. The two Points of the Bay lie W.N.W. and ENE. and the Entrance is about a Mile between. On the W. Point is a Lighthouse, the E. side is high but bare, only there is an old Chapel upon Capel espiere, about 1 - Mile E. from it: The Shore is fleep all the way to the eaftward, 20 to 30, to 50 Fa. close to the Rocks; between the W. Point of the Bay and the Town of Nice, is a pretty large Bay, with an open Road too, in 22 to 30 Fa. So that Villa Franca lies as it were between two Bays. I advise no body to venture into any of these Bays, unless driven by necessity; for a very little dist. from the Shore they will have 100 to 120 Fa. Water, and the Shore flony and fleep.

There is a Key and a Pier Head at Villa Franca for finall Ships; but larger Vessels go farther into the Bay, and anchor under the W. Shore. The Bay of Sospiers, which is about a

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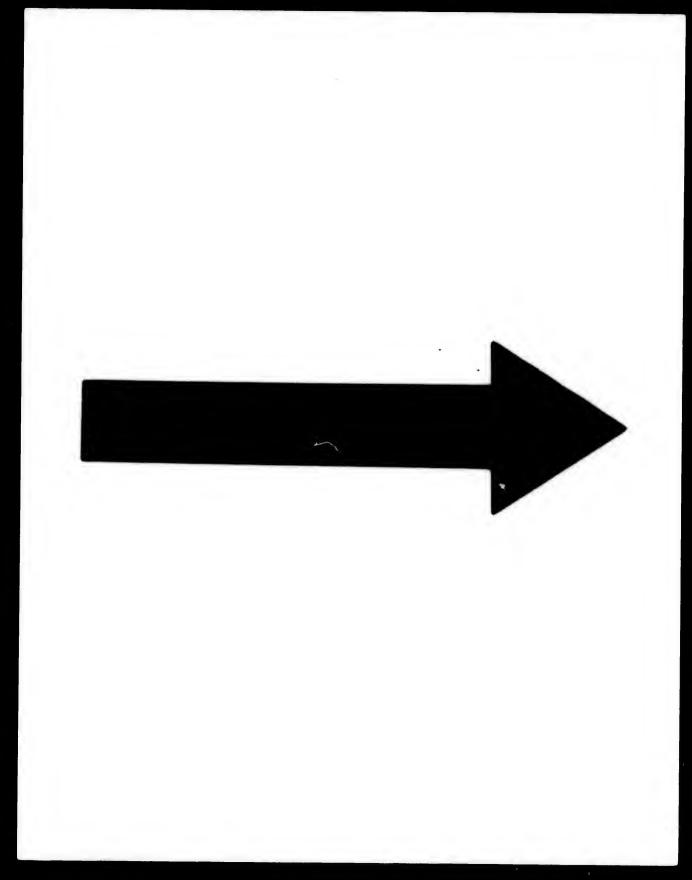
L. farther ealtward, is a much better Shelter in case of a Levant than this of Villa Franca: 'Tis a very good Road, and there is a good Haven; nor is there need of a Pilot, for you may come to an Anchor any where.

One L. still farther E. and 2 Ls. N.E. from Cape St. Velpiere, lies the Tower of Monaco: The City is fittuate under a Mountain, under the E. Point of which is the Road, which is very lafe for westerly Winds, but something open to a Levant.

You may know the Port of Monaco by the high Mountain mention'd above, which is feen far into the Sea. All the Coast from Monaco, and thence to Cape de Melle, is a clear Strand, being a fine fandy Shore stretching away N.E. by E. and E.N.E neither Haven or Road, but finall Heads to receive Barks and finall Craft all the way to Monaco and Cape de Melle. Between them are the small Places of Menton, Vintimiglia, Bordignero, St. Remo, and several others. The Current runs flrong here to the westward from the Coast of Genoa, so that Ships bound from the Hieres are hard put to it to turn in for any of these Ports.

From Cape de Melle the Shore trends away N.W. On the N. fide of the Point, close to the Strand, is a little Village call'd Ariffa, with a great Rock before it, and a Light-house upon it. Between the Town and the Rock is very good anchoring, fafe from W.N.W. and N.W. or northerly Winds, but too open to the Levants. The Shore going on northerly here, you have no other Road or Harbour to Cape Noli except Final. Here Ships ride well, while the good Weather lasts, but in case of Storms they must either run back to Cape de Melle, and anchor under the Light-house, or get about Cape Noli, and away to Savona.

There is a Fort to the northward of Cape Noli, and right with the Fort a very good Road for westerly Winds, or S'W. or N.W. but bad in a Levant, as all the reft are. There is a Chapel with a Steeple upon the Point of Cape Noli, which is a fair Mark to know it at a distance. On the N. side of the Cape is the Village Noll or Noli, where the bell of the Road



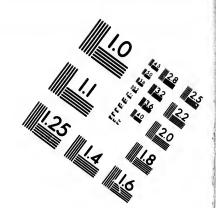
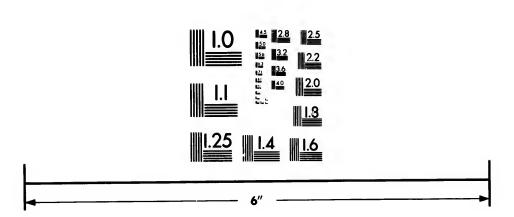


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BILL EST.



N. from the Cape is the Town of Vai, dist. 3 Ls. with a small Bay and a good Road. In the Course from Cape Noti to Vai, the Cape bearing N.W. by N. from you, in the Height you will see the City of Genoa from the Deck of your Ship. Dist. 10 Ls. from Cape Not! N.E. by E. and n..dway between in the same Course N.E. from the Cape, lies the City and Harbour of Savona, formerly a good Port, and capable of receiving great Ships; but since it has been subject to the Government of the Genoese, the Haven is damm'd up with Ships sunk in the Entrance (as reported) on purpose to spoil the Trade; so that now sew Ships can come in, or lie if they were in, except such as do not draw above 7 to 9 Foot Water.

There are no Ports or Roads, or so much as a Point to shelter any Ship under, between Savona and Genoa: The City of Genoa lies N.E. from Cape de Melle, dist. 20 Ls. The Current still runs here strong to the westward, and 'tis very hard to get out of the Bay with the Wind at E. or S.E. Therefore if you are bound in, keep to the eastward as much

as you can, till you come off of the Port.

Genva is a large Harbour within a Mole, the Heads running far out into the Sea. On the eastermost Point or Head of the Mole is a Light-house Tower, or as the Genoese call it a Lanthorn: the W. Point does not run out so far as the Lanthorn Point. If you are bound in here, you must keep the Fair Way, which is Mid-Channel between the W. Head of the Mole and the Light-house. The Head on which the Light-house stands is a Point of Land, all Rocks and foul a little way off; therefore you must give it a small Birth as you go in; the Entrance it self is clean and Water enough: when you are in, you ride secure, with two Anchors off in the Harbour, and two Cables a-shore. You need no Pilot.

From Genoa the Coast changes its Situation, the Land trending away S. and the Course from the Head of the Mole to Cape Fin, or Fino, lies E.S.E. dist. 8 Ls. the Coast is a clean Strand, beautify'd with fine Buildings, most of which are made use of for Sea-marks, but no Harbour or Road in all the way, just as

is the Cafe on the other fide from Cape Melle.

Portofino has a Haven for Ships of a middling fize; the Entrance is narrow, and it has a Light-house on the W. Point; and to the westward of that, close under the Point, is very good anchoring, secure from E. and S.E. Winds; but W. or N.W. blow directly in.

N. B. The Shore on this fide lying E. from the Sea, the Levant Winds have no ill Effect here, as they have on the other Coast from the Hieres to Genoa; so that we hear no

more of them for a great while.

The Coast is soul all about Cape Fin, and is dangerous; so that you should be careful 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 Instructions, 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 small, has such an excellent Situation, that no Wind can hurt you, if you ride in the right place before the Town.

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at Porto Speza. Here 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 must run out of the Bay, if possible, to Specia.

From Porto Specia, the next Port is Leghorn; it lies S.E. by S. dift. about 14 Ls. Leghorn lies from Cape de Melle E. by S. 38 Ls. and from Cape Corfo N.E. by E. 23 Ls. the E. Coast of the Isle of Corsica lying Parallel with the Coast of Tuscany.

in the way from Cape Corfo to Leghorn you make the Island Gorgona, which lies off of Leghorn S.W. by W. dist. 7 to 8 Ls. When you come the Length of Gorgona, you will make the Mountain of Leghorn, or Mount Negro, by which you know your Course, and keep it in view all the way: it lies a little to the castward of the City; but at Sea, especially as you come from Cape de Melle, it is seen just over or behind it. There is a high Land upon Gorgona, with a Castle upon it, which is the Sea-mark for your Course: Bring this Castle to bear E.N.E. and and W.S.W. and you go right with the Rock upon the Malora, and with the Port of Leghorn.

When you come nearer to Leghorn, you will see (in the Course just mention'd) a Rock in the Sea, with a little Tower uponit, call'd the Malora, built for a Mark to the Port; it is plac'd on the Point of a long Riff or Bank of Sand, call'd also the Malora, which runs out from the Shore N by W. from Leghorn, and N.W. from the Mouth of the River Arno; and stretching S. and S. by E. and S. E. in length above 5 miles, lies so shoal, that no Ships can go over it; so that the Sea within is like a Bay: and this is the Sand, which breaking the Force of the Sea on the N.W. makes the Road of Leghorn, which is by that means an admirable safe 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; there's all a clear Sound within, with good Shoalings.

S. of the City stands a great Light-house, being a high Stone Tower built in the Water, and so far out, that simall Vessels may go between it and the Shore; and some sail 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 Malora Sand; the Course is from Gorgona N.E by E. the Malora and the Light-house bearing E. and W. half easterly and half westerly, the Passage between about 3 ½ miles.

To the N. of the Mole-head are 4 Stone Towers, built also in the Water, as the Light-house is; they call them Wateh-Towers, but keep no Watch in them; yet they are good Marks to pilot the Ships which go into the Mole: the outermost, which they call the Powder Tower, is the largest, and lies due N. from the Boca, or Mouth of the Mole.

You may run into the Road in what Depth you please, the Malora Sand having very good Shoalings from 10 Fa. to 1; the Sand is seen by the Breach of the Sea upon it, almost as well as if it lay dry; so that there is no danger of any kind.

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N. of the Point is a little Bay, and towards the bottom of the Bay lies the populous Viliage of St. Ropollo, where is good anchoring just before it: You will know this Bay at a great distance by a high Mountain, which looks off at Sea like an Island, but as you come nearer shews it felf to be part of

the Main.

From hence the Shore differs again; and as the other was all a clean Sand, with no Points or Roads, this part of the Coast is full of them all the way to Porto Speza, or Specia, which lies E.S.E. from Porto-Fino 11 Ls. This is another safe Port, where (when you are in) no Wind can hurt you; yet because there are many Anchorings and Points within the Port

and Bay, you should call for a Pilot.

Perio Specia is at the Bottom of a deep Gulph, which goes in N.N.W. and S.S.E. In the Entrance is a little Island, or large Rock rather, with a Light-house upon it very high: it lies near the W. Point of the Gulph: within and between that and the Point, the Ground is foul, and some sunk Rocks, as well as others above Water, make the Passage next to impracticable without a Pilot. On the other side the Fair Way is good, and makes a deep and clear Channel; and you have to I a Water close under the Shore.

After you are thro' the narrowest of the Entrance, the Bay widens to more than 2 Ls. and on the N.W. side you have 2 smaller Bays, where Ships ride with the greatest Safety imaginable, under the Lee of a high Shore, and yet in very good holding Ground; the Island with the Tower also breaking off the Sea, to that is it should blow hard into the Bay, you ride very easy on that side, especially if the Winds blow from any part of the W. or the N. and on the other hand, if it blows from any Point to the eastward of the N. or due E. then they have very good anchoring under the E. Point, where there is safe Riding in 10 Fa. hard Sand.

E.S.E. from hence is Via Regio, diff. 9 Ls. or thereabouts, a finall Port, and in a little Gulph too, but not so deep in, as

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Small Ships go into the Mole it felf, and larger may; but the Road is so good, they seldom do: if they go in at any time, it is when chas'd in by Rovers and Pirates; and in such cases great Ships have run in at all Hazard, but then Pilots come off immediately to bring them in.

In the Mouth of the Haven, just at the Entrance, lies a great Rock above Water, call'd the Moletta; it looks like an Island, and has several Rocks about it, especially on the 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 some small Channels over the Malora Sand. which small Vessels, and such as are well acquainted, may go thro'; but great Ships can not pass them, they are too narrow, as well as too shoal.

From hence the Shore lies away S. and S. by E. to Piombino 16 Ls. In the Fair Way between, and about \neg Ls. from Leghorn, lies a stony 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, especially in the Night; it has not above 8 to 10 Foot Water over it, and in hard Gales you may see a great Breach of the Sea upon it. To avoid it, keep your Course due S. from the Malora Rock, and go so far with that Courfe, till you fee the Island Capria even with the N. Point of the Island of Corsica; then you are just 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, and you cannot fee Cape Corfo, which is far W. go on then S. till you bring Catpria to bear E.N.E. then you are clear of the Stone Shoal, and may go away for Piombono W. by S.

N. B. The Stone Shoal lies from Piombino N half eaflerly,

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own. ttom of Off of Prombino, has the Isle of Elb, or Elba, the Course S.W. and S.W. by W. dist. 3 ½ Ls. from Legborn it is 16 Ls. S. and S. by W. leaving Gorgona and Capria both on the Starboard fide, and from Capria 9 Ls. the Course S.E. and N.W.

The Island of Capria, tho small, has a fair sandy Bay on the E. side of it, where is a good Road shelter'd 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 Leghorn S.W. and S.W. by W. dist.

12 Ls. and 5 to 6 Ls. from Gorgona S.S.W.

Elba is a mountainous place, you may fee the Land 12 to 13 Ls. at Sea, especially as you come from the northward: There are two small Islands in the Passage from *Piombino* to Elba, with a Light-house on each of them; the biggest is called *Palmaiora*, the least *Palminora*: you leave them on your Larboard side, going to Elba from the Main, or pass be-

tween them, as Wind and Weather may ferve.

There is a very good Harbour on the N E. fide of this Island, and another on the S. fide of it: The first is a Place of Importance, call'd *Porto Ferajo*; and for that reason there is a Castle to defend the Haven, called *Cosmopoli*; 'tis an excellent Harbour, where Ships lie secur'd by the Castle from the Turkish Consairs, and by the Castle and the high Point from all Winds that can blow, so that 'tis a useful Point to Navigation on both Accounts. As you go in, you leave the Castle on the Starboard side, and anchor a little beyond the Pier, with two Cables to Seaward and a Head-sast a-shore; 'tis very good Riding, and clean Ground.

The other Haven is on the S.E. Part of the Island, and is called *Porto Longone*, where there is a strong Fortress which secures the Ships too, but the Harbour is not so good as the other. S.W. from *Porto Longone*, dist. 3 Ls. lies a little low slat Island call'd *Planosa*, it is seen but a little way; and due S. lies another, which is as high, as that is low; 'tis call'd *Monte Christi*, and is seen far at Sea; it lies S.E. by S. from

the S.W. Point of Planofa, dift. 5 Ls.

S.S.W. from the S.W. Point of the Island Planosa lie the dangerous Rocks call'd the Formigues; they are a Cluster of small Rocks lying some under, and some a little above Water, the most not above 5 Foot: The biggest of them do not reach above 4 or 5 Ships length; but there is a Tail of them on the N. side, which stretches away N. into the Sea: tho they lie under Water, they are to be seen if you are near them; and by the Breach of the Sea upon them, when farther off.

There are many Marks to know them by, viz. when you are coming from the West, and the Rocks are E. from you a Musiquesthot off, the N. Point of Monte Christi will bear due E. and the S. Point E. by S. 3 Ls. dist. Again, keep Monto Christi E. by N. and sail to or from it, then you are clear of the Formigues to the S. or keep Monte Christi E.S.E. then you will be clear also to the northward.

S.E. by E. from *Piombino* dift. 7 Ls. is *Cassingliano*; 'tis so simall a Harbour, and of so little import, that our *English* Pilots have not thought it worth mention; which is the more strange, because there is a very good Road in 5 to 8 Fa.

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cis E.S.E. dift. 10 Ls. The Entrance into the Haven is easy to e known by a particular Mark, so that you need no Pilot: There stands an old Wall in the Sea about a Fa. above Water; behind it is the Haven, and on the W. side of it on the Shore stands a Light-house; you may fail into the Haven on either side of the Wall, but the E. side is the deepest, being 5 Fa.

There runs a Shoal from the Point, which you must avoid, because the Ground also is soul; if you go in on the W. side of the Wall, you have 3 Fa. in the Fair Way, and more when you are in. In the Haven you come to an anchor, with two Anchors in the Water, and two Head-sasts in Rings upon the Wall; this is the Pope's Town, and is lately made a free Port.

From Civita Veccia the next place is Oflia, the Mouth of the River Tiber, dift. 6 Ls. the Courfe E.S.E. 'Tis a very indifferent Port now, and will receive none but finall Veffels: The old Haven which was antiently the Port to the City of Rome, is now call'd Porto, but is spoil'd, and of no use in Navigation; it lies a little W. of Oslia.

From the Mouth of Tiber dist. 7 Ls. is Cape Antio, the Course S.E. by S. the City Nettuno lies E. of the Cape dist, half a L. the old Haven remains, but is useless also, except for small Crast. From this Cape to Monte Corcelli is also 7 Ls. S.E. by S. 'tis a long low Point lying far into the Sea; so that at a distance you may mistake it for an Island; the Mountain which gives it the Name, standing sarther E. within the Main. Round about this Point stand 4 or 5 Watch-Towers.

From this Point to Gaeta is 8 Ls. E. by S. being on the Coast of Naples: Between them are several small places, as Terracina, dist. from Corcelli 2 Ls. it had formerly a good Haven, but is now spoil'd and not sit for use, as are several other small places. Gaeta lies in a Bay, where you have good anchoring for all Winds, except that a southerly, and a S.E. Wind blows right in. The Mountain call'd Monte de Santa Trinidade is a good Mark to know the Port by; the Town stands upon part of it, and another part makes the Point which forms the Haven: the Road is capable of securing a great Fleet. From this Point to the W. end of the Island of Island, the Course lies S.E. by S. and S.S.E. dist. 12. Ls.

The Island of Island lies off of Mola S.E. by S. and S.S.E. dist. 12 Ls. and from Naples 8 Ls. S.W. The Course from Island to Naples N.E. by E. and from Island to Castellamer is E. 9 Ls. There is good anchoring in Castellamer under the Fort, or at the Pier, being the Entrance into the Mole, close to the City of Naples.

From the Gulph of Naples to the Fare or Vare of Meffina, there is not one Haven, Creek, Road, or Port of any Confequence; if you have made the Bay, and are bound into the Port, keep 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 Pier of the Haven and the Land, you may anchor without fear, in 5 to 6 Fa. Ships bound out ride behind the Island Nasta, where the Castle stands, there is good riding for great Ships; but take care not to go to the castward of the Island.

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s.E. by E. from *Piembino* dist. 7 Ls. is *Cassigliano*; 'tis so small a Harbour, and of so little import, that our *English* Pilots have not thought it worth mention; which is the more strange, because there is a very good Road in 5 to 8 Fa. secure from northerly and easterly winds: it stands at the Mouth of the great Lake call'd *Lago di Cassigliora*, where are likewise some other Roads, and a little Haven at *Citya*, where Ships often put in for Water and Provisions.

From Castiliano to Monte Argentaro the Course is due S.E. dist. 10 Ls. occasion'd by the Situation of Castigliano lying in the Bay a Point to the E. for from the E. end of Elba to Monte Argentaro; the dist. is 16 Ls. and from Piombino the same.

Argentaro is a high Point running far out into the Sea 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. Porto Hercule is a commodious Haven, able to receive great Ships; the Entrance is between two Castles; when they open to your View, they shew you the Channel or Fair Way into the Port; when you are enter'd the Haven, come to an anchor on the W. side: you will need no Pilot.

N.W. from Argentaro lie another Sett of Formignes, being Rocks like the former, and call'd fo for that reason; they are 3 in Number, the westermost is the largest; they have many small Rocks about them; but as they lie towards the Shore more out of the way, so they are not so dangerous to Navigation as the other: there are 2 other Islands lie off at Sea 4 Ls. N.W. from Argentaro, they lie N.N.W. and S.S.E. One is called Gigio, and the other Xanuti.

From Porto Hercule the next Port of Consequence is Civital Veccia, or as our Sailors call it, Civita Veech: the Course

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All the Coast, as is said above, from Naples southward, tho pretty clean, has no Ports, Rivers or Havens for the Benefit of Navigation, or the Sasety of the Mariners; some sew places there are, where in Case of Necessity Ships may ride, but the best of them are very indifferent for Sasety; such as,

1. The Island of Capri, 5Ls. from the Gulph of Naples due S.

2. From Capri to Almafri the Course S.E. there is a Road under the Shore near the Point, which is high and shelter'd from the easterly and N.E. Winds, but here is no Haven; and southerly and westerly winds blow right in.

N. B. Sailors of all Men should not pass it over, that at this Town of Almafri the first use of the Compass (or of the

Load stone in failing) was discover'd and contriv'd.

3. Salerno, 2 Ls. from Almafri; there also is no Haven, but a good hard Sand, and very safe anchoring for northerly and easterly Winds, but very dangerous in other Winds.

4. Cape Policastro, or rather the Gulph of Policastro, is from Salerno 12 Ls. E.S.E. In all these, or forwards, where the Coast trends away S.S.E. to the Vare or Strait of Messina, which is 30 Ls. at least, you have no good Harbour, nor any Port of Consequence.

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Sailing Directions for the Islands on the Coasts of sive; and first of the Island



HE northermost Point of the Island of Corsica is call'd Cape Corfo; it has two finaller Points, which lie 3 to 4 Ls. S.E. from one another; one is call'd Cape Blanco, and the other Cape Sagri: There is a kind of Harbour between them, where the two

Points breaking off the Sea, you may ride very fecure from a

wefterly and S.W. Wind.

About a L. foutherly from Cape Corfo there is a little Island. with a Light-house upon it; and half a L. S. of the Lighthouse is a fandy Bay, where also there is a very good Road: and there is another Light-house also S.E. from the Island on a Rock or Cliff by the Water's Edge: This Rock is call'd by some Cape Sagri, but it is by mistake, the Cape being farther Coming from the northward, at first fight it makes like an Island, but when you are about the Point, you see it joins to the Main.

As you fail by it, you see two crooked Points, and a Bay between, which feems plain and fair. There is a Castle on the S. fide of the Point; at a distance it seems as if it was a good shelter from S.S.W. and westerly Winds, but when you are in, it does not prove to: Also I think the Ground is not good for Anchoring. Besides, the N. Land there, is higher than the S. and the Points lie to flat, and the Land to low, that they are no Security at all.

Some tell us also, that there is neither Bay nor Road on the E. fide of Corfica, yet Ships do frequently ride there, and there is good Anchor Ground and hard Sand in many places, tho not well shelter'd, or secur'd from Rocks, and very open to the

Levant Winds.

There is a low piece of Ground S. by E. from Cape Sagri, thrusting out into the Sea beyond all the Rocks, where the Town of Sino stands, dift. 12 Ls. from the Cape; a blind black Rock lies 4 Ls. to Seaward from it on the E side; there cannot be above 3 FootWater on it, by reason of the violent Ripplings and Breach of the Sea upon it: you ought to be very careful of this Rock, as you fail by, for it is little bigger than a Boat, and you may found long before you find it.

At the Entrance of a finall Island call'd Giglia, or Light, lies the Haven of Vechio S.W. from Cape Sagri 11 Ls. you may go in on either fide the Island; there is good anchoring safe from all Winds. Some finall Islands lie without the S. Point, and they are foul or the S. part alfo, fo that when you go without

them, you must be fure to give them a good Birth.

S.W. from those Islands lies St. Amanso, dist. 5 Ls. a bold Cape, the Course S.W. and the Bay of St. Bonifacio lies 3 Ls. S.W. by W. from the Point; and upon the Point it felf stands a large the Ha known.

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a large Castle, also two Rocks call'd La Vegi lie just before the Haven: by all which Marks the Place is very easily known.

If you are forc'd to lie by to the eastward of the Island of Corfica, you may perhaps find a Leeward Current, so that nothing can be sav'd by turning; the best way then will be to get a good Road to come to an Anchor in, and ride for a Wind: and in such Case this Bay of Bonifacio is always helpful, if you can but setch up so far.

From *Bonifacio* it is 5 Ls. W.N.W. to the Island of *Monaqui*: There are some difficult Rocks in the way, and you cannot well fail between them, unless you are very well acquainted, so that I advise to keep in the *Fare*, or Passage without them, between those Rocks and *Sardinia*.

The Gulph of Talabo is the next Harbour of Note, it lies N.W. from Monagni dist. 4 Ls. if the Winds blow hard from the N.E. 'tis good riding here. Also 6 Ls. N.W. by N. from Talabo lies Monte Rosa, and between them the Gulph of A-jazzo. At the bottom of the Gulph is the Town of Sagano: This Bay or Gulph is a Road almost as good as a Harbour, and as safe Riding, secure from all Winds from the N.W. to the S.W. Points.

About a L. W. from *Mount Rofa* are the Islands call'd *Sagonara*; between them and the Main you have a good Channel; but 3 Ls. at least from the Island S.E. there stretch out some sunken Rocks; which those that come out of the Gulph to fail to the westward should be careful to avoid, because they are exceeding dangerous.

The Gulph of Genarea is on the N. side of Mount Rosa, which in respect of Conveniency for good Anchoring, is also much the same as the Gulph of Ajazzo. There are some Rocks also which lie out a L. into the Sea, and must be avoided. They lie 8 Ls. from Mount Rosa towards the Bay of Alan, N. by W. from the southward part of it.

lan, N. by W. from the fouthward part of it.

9 Ls. N. by E. easterly is the best Course from those Rocks to Cape Rivila, and there is good anchoring all along the Coast between.

The Town of Calvi, which is one of the chief Havens of Corsica, is about a L. and half due E. from Cape Rivila; and the Island Point Rosa is E. by N. at the same distance; between which and the Main is good anchoring in 2 or 3 places.

It is 12 Ls. from Point Rosa to Cape Corso, the Course is E.N.E. and there is a good Haven. Fierenzo is 6 Ls. due E. from Rosa. The next is Cape Blanco, N.N.E. which makes the Circle of the whole Island, just ending at Cape Corso, where you set out.

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Sailing Directions for the Island of Sardinia, beg Island and the Islan

H E Passage between Confica and Sardinia, beginning T about St. Bonifacio on the S. part of the Island of Corfica, and measuring to the most northerly Point of Sardinia, call'd Point Tico, is 2 Ls. and a half

broad.

But as they feldom cross here, the ordinary Passage lies into a little Bay at Pullinero, where 'tis about 3 Ls. over; from the Has en of Bonifacio on the S.E. of Corfica, to the Island of Afinaria, the Courle is S.W. 13 Ls. and from Afinaria to the N. end of Sardinia, or the N.W. Point call'd Pene, is 9 Ls. and from Point Pene to the Isles of Costa di Dona is 16 Ls. S. by E.

From Costa di Dona to Point St. Marco, 'tis S. by E. 3 Ls. and 10 Ls. from St. Marco to the Island of St. Pedro, the

Course S. by W.

St. Pedro is a stony or shelly Island of a reddish Colour; the W. end feems to be high, bending crooked downwards, about a Mile from the highest Point: At the E. end 2 Rocks lie above, and fome under Water. St. Pedro stands due W. 2 Ls. dift. from the Island Sardinia; and betwixt them a fine large Channel to turn in: there is a good Road also to the castward of St. Pedro, in westerly Winds.

The Island of Palma de Sall lies about 3 Ls. S.E. of St. Pedro; there is good space between them to fail or turn: Commonly the Turks lie lurking behind these Islands for Ships which fail this way to the Bay of Rosa, or to Cagliari. A Rock call'd Vaca lies close to Palma de Sall; but a good way off from the Shore, and more casterly, lies the Rock Taro, ris the highest of the two, and is about 5 Ls. S.E. dist. from St. Pedro.

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f Sardinia, beginning at the Passage between the said and the Island of Corfica.

The Course to Cape Tolar from the Rock Vaca is 2 Ls. E. Tolar is the W. Point of the Bay of Rosa; 'tis a high bare ragged Point: there is a landy Bay E. of it, where there is even Ground, and in westerly Winds a good Road: and the Coast to the Island of Rosa from Point Tolar is 2 Ls. N.E. is very deep Water in this Bay of Rosa.

This Island is pretty big, but stony and flat; the Rocks are of a reddish Colour; there is a good and fair sandy Bay to the westward of it, where you have from 10 to 23 Fa. You may anchor any where, the nearer the Island the deeper, but its not above 10 or 12 Fa. To the eastward 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

Cape Fironia is S.S.E. 2 Ls. from the Island Rosa: A Watch Tower stands on the Cape, and E. of it is a good Road for westerly Winds.

Cape Pulla, which is the W. Point of the Bay of Cagliari, is a large Leag. E.S.E. from Cape Fironia; 'tis all rocky Ground on the W. side of those Capes. Cape Pullo is a low Point: Coming from the westward, and failing about this Cape N.E. towards Cagliari, you have good fandy Ground, but 18 or 20 Fa. Water close to the Cape, steep and stony, and the Land is full of small Trees.

You may see another Point when you are pass'd Cape Pulle, call'd Cape Saroch: About 4 Ls. off it appears like two Hills, or Islands at first, tho it's firm Land; and two Light-houses stand on it: For the most part it's a fair fandy Ground betwixt this and Cape Pullo.

Four Ls. N. and N.N.E. from Cape Saroch, lies the Bay and City of Gallaria or Cagliari; and to the W. between the Cape and the City is a great Bay, and low Land, all along the Water-fide, with good anchoring Ground, and an even fandy Shore.

At the Port, or in the Bay of Cagliari, you may come to an anchor any where in 3, 4, or 5 Fa. fandy Ground; cast your Anchor just before the City, there you lie fare from all Winds: Under the Castle, a L. from the Road, or 2 or 3 Ls.

from Cagliari, is 14 or 16 Fa. fandy Ground.

A Point call'd the Luart lies 1.4 Leag. S.E. of the Town: This Point at first shews like an Island, when you come from the eastward into Cagliari Bay, yet it joins to the Main by a small Neck of Land: But there is an Island lies to the westward of this Point, and a Church and a Town stand on the Point of it. E. from this Point is a great Bay, with even sandy Ground all over it.

In 14 or 16 Fa. Water you may anchor 3 or 4 Ls. from the City. If you come into this Bay by night, and cannot get fight of Cagliari, the Bay is all over good Ground as above.

At the E. end of the Bay of Cagliari lies the Island Cortelazo, dist. from Zuart 7 Ls. S.E. by E. but 12 or 13 Ls. E. by N. from Cape Pullo: in W. and N.W. Winds there is a good Road under this Island; but the W. Point of it must be shunn'd, because it is foul Ground. This Island of Cortelazo lies under Cape Carbonera, which is the S.E. Point of Sardinia.

Two Islands lie to the E. of Cortelazo; the innermost is the highest; the eastermost is call'd Serpentera, and has many small Rocks about it. On each of those Islands stands a

Watch-Tower, and on each of them fome Guns.

If you are bound for Cagliari Bay, coming from the eastward, and cannot get in by reason of westerly Winds, you may anchor under Correlazo; but if unacquainted and dare not, then sail about Correlazo and Serpentera, and lust near to Carbonera: Then to the N.W. you will see a slaunting

Sailing Directions for the Island of Sicily, fro Coast, to Palermo, Trapano, a

H E Point of Messina is low Land, and sandy Ground, on which stands a Light-house: About 3 Ls. southward of this Point lies the City at the Bottom of the Harbour, 'tis the best Haven in Sicily, having a large Moie. Those that would go in there, need not take any Pilot, or sear any thing, but sail close along the Shore on either side. You may come to an Anchor close by the City, and moor to the Mole-head, with your Anchors to Seaward; there you lie shelter'd in all Winds, you may anchor also without the Haven if you think sit, it's all good Ground.

Those that would sail thro' the Vare of Messina from

the fouthward, or eastwards to the N. must keep near the Coast of Calabria, or the main Land of Italy, for the Current commonly sets to the northward on that Shore: And contray-wise, those that would fail thro' to the southward, must keep

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Islands stands a

g from the eafterly Winds, you tainted and dare ea, and luff near I fee a flaunting Point, with a round Hill near it; then till you are past the Rocks, keep along the Shore and a Point standing near to the Watch-Tower, and there anchor in 12 or 14 Fa. good sandy 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, you may see an Island 3 Ls. to the northward, on which a Watch-Tower stands; and there you may have Wood, good fresh Water and Provisions, or whatever you stand in need of, for little Money.

Seven or 8 Ls. N. of Carbonera Point lies an Island, which shows it self when it lies N.W. by W. dist. 3 Ls. from you: It's about half a L. long, and two Light-houses appear upon it, one to the S. end on the highest Land, and the other to the N. There are two good Roads and sandy Bays to the southward of this Island, secure in S.W. and W. and N.W. and

northerly Winds.

A great white Tower, 3 Ls. S. of this Island, stands on the Main of Sardinia; and there feems to be a good fandy Bay under it as you fail by; but when you come nearer, it is but a wild Road.

There is also a high and bare Point of Land lying about 3 Ls. to the northward of this Island; and about 3 Ls. to the southward of it lies another S.W. from you, being also a bare Point of Land, but high.

From the northermost end of Sardinia, about 4 Ls. S.E. lies the Island Talara, from the Land a pretty distance, being high and slat; and a high Hill lies N. of it about Musket-shot off, by which the N.E. end of Sardinia is always distinguish'd at Sea.

Also 3 or 4 Islands more lie to the northward of it; so that much broken Land lies at the N. end of Sardinia.

Behind those Islands seems to be many fair and good Bays, where they suppose are good Roads; but they lie out of the way, and no Use is made of them.

l of Sicily, from the Harbour of Messina by the North

out 3 Ls. fouthhe Bottom of the Sicily, having a ced not take any e Shore on either by the City, and rs to Seaward; anchor also with-

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of Meffina from the Coast for the Current re: And contray-ward, must keep

If you are coming from the northward of Sicily, and bound in for Trapano, keep the N. Point at a handfome dift, then haul up easterly, and anchor where you pleate, off of the Town, in 4, 5, or 6 Fa. Here you are secure from all Winds, that is to say, from the N. Wind by the Land, from westerly Winds by the Island, and from southerly Winds by the Shoals of the Salt-Ponds; so that it is all one as if you were in the Haven, or under the Mole heads.

Those Shoals lie 3 or 4 Miles off at Sea from the Road; the Ground is uneven, and full of Holes, so that you must stand no nearer than 7 Fa.

The Water rifes about a Fathom or fomewhat more, with a N.W. Wind, but not fo much in calm Weather. A S.S.E. Moon makes high Water.

From thence to Marfalla the Courle is S. westerly, dist.

Coast, to Palermo, Trapano, an

HE Point of Mellina is low Land, and fandy Ground, Ton which stands a Light-house: About 3 Ls. southward of this Point lies the City at the Bottom of the Harbour, 'tis the best Haven in Sicily, having a Those that would go in there, need not take any large Mole. Pilot, or fear any thing, but fail close along the Shore on either You may come to an Anchor close by the City, and

moor to the Mole-head, with your Anchors to Seaward;

there you lie shelter'd in all Winds, you may anchor also with-

out the Haven if you think fit, it's all good Ground. Those that would fail thro' the Vare of Messina from the fouthward, or eastwards to the N. must keep near the Coast of Calabria, or the main Land of Italy, for the Current commonly fets to the northward on that Shore: And contraywife, those that would fail thro' to the fouthward, must keep

near the Island.

But this must be known and observ'd, That the Current on the Sicilian fide runs fometimes with such a force, that it is as fierce almost as a Mill Stream, especially the Flood; so that those who go in there in still calm Weather, can hardly get out again, and therefore avoid it.

The Fare or Vare of Messina lies extended S. by E. and N. by W. about 10 Ls. From the Point of Messina to the Point of Melaffo, the Course is W. by S. 9 or 10 L. Under the Point of Melasso there is a good Road, and safe riding.

From the Point of Melasso to the Point of Salanto, or to Cape Bongerbino, the Course is W. by S. 29 Ls. Close by Point Salinto lies a great Rock, upon which stands a great Light-house; and castward of it is the Bay of Salanto. There 18 good Ground all over the Bay, and good riding in foutherly Winds; but the N. and N.E. make a foul Shore.

W. of Point Salanto lies a great Creek about 3 Ls. long: In the Bay opens the River of Palermo, those that fail thither must keep westward right with the Haven, and anchor behind the Head or Mole with two Stern-fasts on the Mole, and an Anchor to seaward, where you lie in 6 Fa. Water, shelter'd in all

Winds.

Cape de Gallo is the last Point in the northern Coast of the

Island, it lies distant from Palermo 3 or 4 Ls.

From Cape de Gallo the Land falls off S.S.W. to Trapano; the Course is W.S.W. dist. 13 Ls. The City of Trapano lies on a finall Point of Land, and stretches out from the W. end of Sicily W.N.W. Between them lies Cape de St. Vite, dift. 5 Ls. Under the E. fide of Cape de Vite is a deep Bay and good anchoring.

I hose that come to the westward of the Island, and would fail to Trapavo, must sleer E.S.E. till they come to a little Itland whereon flands a Caffle, call'd Colombiere, then keep to the fouthward of the Island, and anchor between it and the City Trajano in 5 or 6 Fa, where they may lie very well in

most Winds.

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From thence to Marfalla the Course is S. westerly, dist. about 3 Ls. and from Marfalla to Marfara, it's about 10 Ls. S. by W. The Land is low to the Water's Edge: and with the Wind off Shore stand no nearer than 10 or 9 Fa. because of Overfals.

To the northward of Sicily lie a Cluster of Islands, call'd by the Sailors the Lipari Islands, because Lipari, which is one of them, is the chief Place of Business; but they have all Names severally, as the Island of Stromboli, Lipari, Salina, Fillicur, Allicur, and Oftica. The Island Stromboli simokes continually, and is a Sea-Mark for all the rest; it lies from Messina N.W. If you would fail from the Fire-Boat of Messina to Naples, or Gaieta, and fail N.W. you will hit exactly with Stromboli. Near the Island Island under Stromboli is a good Road for westerly Winds.

Lipari lies from the Point of Messina W.N.W. 15 L. and from the Point of Sisalu N.E. by E. 20 Ls. to the westward of

which lies Fillieur and Allieur.

The Island of Allicur and the City of Palermo lie S.W. by S. dist. 15 Ls. and Offica lies from Palermo N.N.W. 17 Ls. and from Cape de Gallo N. westerly 11 Ls. On the Island of Offica stands a little Church; and there is good riding near the Land just before the Church.

Uffica and the Island Maritimio on the W. Coast of Sicily,

lie N.E. and S.W. 22 Ls.

There are two large Islands besides this of Maritimio, and some small ones, which lie all at the W. end of Sicily, and which are all very high Land; their Names are Faragnano, and Lewenzo. The W. end of Sicily is also very high, by which it may be known at a great dist. some say it is seen to Cape Bona near Carthage on the Coast of Africa.

The Island Maritimio is the westermost, and lies W. from the W. end of Sicily 5 or 6 Ls. it is certainly the highest of the three, and in clear Weather may be seen 16 Ls. off when to the northward. Levenzo is the northermost of them, and at a dist. makes like two long Hills. Faragnano is the souther-

moth

Sailing Directions for the Isle of Malta, and the

most and largest, and hath much low Land about it; on the S. end of it stands a Castle, and on the low Land a House, which are both Sea-Marks, as well to know the Island by, as to guide Ships in, to the adjacent Ports of Marcella and Mazara. This Island 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 sail E.S.E. and S.E. by E. shall be sure to fall to the southward of the aforesaid Islands, and to the northward of the Quells, and safely go between them; also with this Course you fall to the northward of Malta.

The City Trapano lying on the N.W. Point of Sicily, from thence to Point Mazara the Course is S. by W. 10 Ls. Between these two lies the City Marcella, 4 Ls. from Trapano.

From Point Mazara to Cape Leacota the Course is S.E. by E. 23 or 24 Ls. About 6 Ls. E. from the W. Point lie two long Mountains at the Water-side; the castermost is ragged and uneven: Under these Mountains lies the City Xica; and castward of these Mountains the Land is all along very high and hilly; but westward near the Water-side it is plain and even, and the more westerly the lower the Land.

Fifteen Ls. from the Point of Mazara lies the City of Sergento, feated on a high Hill, very beautiful in Prospect; over which you see a strong Castle. On the W. of this City is a low square Castle under an old white Cliff, where are small Rocks which make a Mole: And here the Ships load their

Corn for Malta.

From Mazara to Leacota the Course is S.E. by E. 23 Ls. and from thence to Cape Samaris the S. Coast of Sicily reaches E.S.E. 15 Ls. and from thence to the S.E. Point, or Cape Passaro, the Course lies E. 17 Ls. Cape Passaro lies in Lat. 36. 48. and is the farthest Point of Land eastward in the whole Island, facing towards the Gulph of Venice and the Coast of the Morea.

Cape Passaro is Land, having a gre first you see 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. Coast of Sic and this Mountain forth; the Smok well known by its castern and fouther

Near Cape Paffa Ground is very fo your Cables will Anchor.

From Cape Pass call'd Saragosa, the to Messina the Course is already given ho Passage is call'd the Thorow-Fare, Passage into the Bassage into the Bassage against the Bay gusta; from when the Course is direct

Sailing Directions for the Island and Channel of Malta, a African Coast.

Wenty four Leagues from Cape Payaro S.W. lies the Island of Malta or Maltha; and between Malta and Cape Bona on the Barbary Shore lie the Islands Pantalaria, Limofa, and Lampidofa. Pantalaria lies from Cape Bona 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 fresh Water and Provisions to be had, and safe riding from northerly and N.W. Winds.

Limosa lies from Lampidosa N.N.E. 10 Ls. From Pantalaria to the Island Goza the Course is E.S.E. 37 Ls. and from Pantalaria to Cape Passaro it's E. and E. by S. 55 Ls. The Island Goza lies at the W. end of Malta, upon which stands a slat Tower near the Water-side, being even Land all along between Goza and Malta. There are several small Islands, which are also even and slat, but without People or Buildings, except a sew Hutts for the Herdsmen who keep Cattle there; by those Hutts you may know the Islands.

The S.W. fide of Point N.W. and Nother highest in all Martin from this Point life castward, and Mary short and even. Land, like to Doz bout a L. off, you The N. side of M. E. by S. and E.S. F.

If you would a make a Signal, a good anchoring in to 18 Fa. but as it but either purfue they can.

Cape Passaro is the S.E. Cape of Sicily, a low Point of Land, having a great Light-house upon the Point of it. When first you see the Cape, then this Point seems like a low Island. but it's the firm Land, as you will afterwards fee. Northward of this Cape the Land of Sicily begins to be high and somewhat mountainous; but even to the northward of the Cape. there lies another low Point of Land: When this low Point bears 4 or 5 Ls. N. by W. from you, and Cape Passaro S.W. by W. then the high Volcano of Mount Atna, 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. Coast, and almost all the S. Coast of Sicily. This high Land is cover'd with Snow, and this Mountain continually imokes and fometimes flames forth; the Smoke feems like a great black Cloud: It is well known by its Height, and is a noted Sea-Mark for all the castern and southern Coast of Sicily.

Near Cape Passaro lie 3 or 4 Islands; and off this Cape the Ground is very foul; therefore you cannot ride here, for your Cables will presently cut, and you will lose your Anchor.

From Cape Passaro to Syracusa, corruptly by our Sailors call'd Saragosa, the Course is N. by W. 9 Ls. From Saragosa to Messina the Course is N. by E. about 26 Ls. A Description is already given how to go in at the Haven of Messina. This Passage is call'd the Vare or Fare of Messina, which signifies the Thorow-Fare, or Passage, or Streight of Messina: as the Passage into the Baltick is call'd the Sound, or the Passage to Constantinople is call'd the Hellespont, and the like: It is in length about 10 Ls. reaching in S. from Messina to the Opening against the Bay of Catanea, or the City and Port of Angusta; from whence to Cape Spartavento or to Cape Passaro, the Course is directed as above.

nel of Malta, and the Islands adjacent on the n Coast.

The S.W. fide of Malta stretches from Goza Isie to the S.E. Point N.W. and N.W. by N. 14 or 15 Ls. The S.E. Point is the highest in all Malta; and about half a Leag. W. or W. by S. from this Point lies a round high Rock: Coming from the castward, and Malta bearing N. from you, then it appears very short and even. 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 see on that white Land a white Church. The N. side of Malta trends from Goza to the N.E. Point E. by S. and E.S.E. 12 or 14 Ls.

If you would go into the Harbour of Malta, you must make a Signal, and Pilots will come off to you. There is good anchoring in the Road of Malta before the Port, in 15 to 18 Fa. but as it is in the open Sea, no Ships ride long there, but either pursue their Voyage, or enter the Port as ioon as

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Limofa lies from Lampidofa N.N.E. 10 Ls. From Pantalaria to the Island Goza the Course is E.S.E. 37 Ls. and from Pantalaria to Cape Paffaro it's E. and E. by S. 55 Ls. The Island Goza lies at the W. end of Malta, upon which stands a that Tower near the Water-fide, being even Land all along between Goza and Malta. There are feveral finall Islands, which are also even and flat, but without People or Buildings, except a few Hutts for the Herdimen who keep Cattle there; by those Hutts you may know the Islands.

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Sailing Directions for the South and East Coasts of I of the whole Adriatick Gulph; with the Coast of inclusive: Also the Islands in the Ionian and Egean

APE Spartavento is the fouthermost Point of Italy, after you are thro' the Vare of Messina: It lies oppo-fite to Cape Passiro in Sicily. The Course to it from Paffaro is N.E. northerly, dift. 32 Ls. and from Spartavento to Cape Porfano 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. 32 Ls. Again from Spartavento to the City and Port of Tarauto N. by W. 30 Ls. all which contain the whole breadth of that part of Italy call'd Calabria, from S.W. to N.E. being 216 Miles in length.

In all the long space between in this Run you have no place of Note but Taranto; indeed the Coast is full of small Creeks and Bays, where Ships may on occasion find shelter: but none of our Surveys give any other Description of them than in ge-

neral, as is here also 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. about 3 Ls. W. of that Port are several good Roads, where you are flelter'd from S.W. S.E. and N.E. Winds: There are tome Islands lying thwart the Mouth of the Haven of Gallipoli to Seaward; if you fail for the Road, you must keep without those Itands, for the Road it self is without them: there you may ride easy and fase in view of the Haven, and without the Trouble of going in, or coming within Command of the Castles, which for good reason the English Ships used care-

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From Cape Ls. This Cap the Adriatic S. at Otranto secu N E. Winds bl

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The S.W. fide of Malta stretches from Goza Isle to the S.E. Point N.W. and N.W. by N. 14 or 15 Ls. The S.E. Point is the highest in all Malta; and about half a Leag. W. or W. by S. from this Point lies a round high Rock: Coming from the eastward, and Malta bearing N. from you, then it appears very short and even. 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 see on that white Land a white Church. The N. side of Malta trends from Goza to the N.E. Point E. by S. and E.S.E. 12 or 14 Ls.

If you would go into the Harbour of Malta, you must make a Signal, and Pilots will come off to you. There is good anchoring in the Road of Malta before the Port, in 15 to 18 Fa. but as it is in the open Sca, no Ships ride long there, but either pursue their Voyage, or enter the Port as ioon as

they can.

of Coasts of Italy, the Coasts of Venice, and h the Coast of the Morea to Cape St. Angelo an and Egean Seas.

fully to avoid; and for the same Reasons Strangers ought to be warn'd.

If you are resolv'd to go in, and are secur'd against all other things, then take a Pilot to carry you thro' among the Islands, for the Passages are very difficult.

From Cape St. Maria to Cape Otranto the Course is N. 9 Ls. This Cape is the northermost Point of the Entrance into the Adriatic Sea, or the Gulph of Venice. There is a Haven at Otranto secure from S. and S.W. Winds; but northerly and

N E. Winds blow right in, and bring in a foul Sea.

The first Port on the Coast of Italy within the Adriatick Gulph is Brundiss, formerly Brundussum; it lies from the Mouth of the Gulph N.W. by W. 13 Ls. 'tis all the way a clean Strand, with good anchoring in a hard sandy Ground, and in what depth you please: 'tis the same under the E. Point of the Haven, where you are safe from W. and S.W. Winds.

There is a Castle on the W. Point of the Entrance into this Haven; if you would go in, you must keep close under the Castle, for the E. side of the Channel is soul Ground, with many Rocks, whereof some are under Water and very dangerous: and yet you need no Pilot, having nothing to do but to keep close along by the W. side, till you are within the Haven, and then come to an Anchor where you please, for you are with all the Backs.

are past all the Rocks.

From

From Brandify to Bari the Course varies; to Monopoli it is W.N.W. 10 Ls. and thence to Bari to Ls. more; the

Courfe W. by N.

Bari is a large City, fitnate close to the Water's Edge, and has a very good Haven, but the Entrance is difficult and full of Rocks; and even the Road too is but little known, so that a Stranger should be at the trouble of a Pilot before he comes to an Anchor: Many English Ships use this Port, and therefore 'tis needful to warn them to keep off, or ride at a sufficient distance, and make a Signal for Pilots.

W. from Bari 6 Ls. lies the City of Berletta, where the Road is better, and you ride before the City very fafe in 8 to

-9 Fa.

From Berletta the next place is Cape Veflice; the Course is N.W. by N. and N.N.W. 13 Ls. From Monopoli to Cape Veflice the Course is N.W. by W. 23 Ls. the difference is occasioned by the unevenness of the Coast, full of little Bays, and

Points thrusting out into the Sea.

It should be observed here, that at the Entrance into the Adviscie Gulph, which side soever you are bound to, you should keep the eastern Shore at first; for the Gulph goes in almost N. and S. at least the Channel or Fair Way lies so; indeed after you are entered, you vary the Course as your Voyage requires; if you are bound to the Coast of Italy, you must come to a N.W. Course, the Italian Shore trending away to the N.W. and N.W. by N. all the way from Otranto to Ravenna; except that at Cape Vestice, and the Shore from Point Ferma to Ancona, there the Land stretches out N. and N.N.W. but then falling of again, returns to its former Course.

Also it is to be observ'd, that in all this part of the Gulph, the Current sets generally to the southward: for as this whole Gulph is in the nature of a Bay, having no Passage any other way: so the many great Rivers which slow into it, as the Po and the Addige in particular, with abundance of Rivers out of Isria, Croatia and Dalmatia, must of necessity make a great

Current downward.

Add to this, that the northerly Winds, which the Italians call Tramontane, blow to conflantly as well as violently, that when they fet in, no Ships can stir beyond Mount Angelo; for far indeed they may lead it up, the Coast falling away something to the westward, but there the Land turns again, and pushes out to the north, and then 'tis not to be done: Therefore Ships bound to Venice must keep as much to windward as possible, that is, they must keep the Coast of Dalmatia aboard, and run as far to the northward as they can; and then they may lead it away to Venice as we shall see presently.

Between Cape Barry and Vestice is a large deep Bay, occafion'd by the Land which makes the Cape of Vestice thrusting out so far into the Sea northward, so that with the Tramontane Winds there is no weathering Cape Vestice: Therefore Ships bound farther up the Gulph, should never come nearer Menopoli or Barry, or any Port on this Coast, than Otranto, but stand away to the N. as is said before in good time.

About this Bay, between Barry and Vestice, lie the small Ports of Mansfredonia, Siponti, and Monte St. Angelo-This

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a noted Port for Safety: it lies in a Bay, and you have 14 to 15 Fa. in the Road within half a L. of the Shore, but 'tis foft Ground, and open to easterly Winds; which as they blow right in, bring a great Sea into the Bay; and the Ground being not a good holding Sand, you may be in danger of going a-sihore.

From hence to Ancona the Coast bears a little out into the Gulph, and you must steer N.W. northerly: Here is a Mole, and within it a good Haven, shelter'd from all Winds whatever, but you must 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 end 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 secur'd, and have 7 to 8 Fa. within a Cable's length of the Shore.

From Ancona to Synagaglia the Course is W. by N. 8 Ls. Here they have a little River, where finall Vessels may ride, but the great Ships ride under the Mole-Head, which is very

good, and where they are well fecur'd.

From Ancona to Rimini, call'd by our Sailors Rimano, is 21 Ls. the Courle N.W. by W. and W.N.W. 'tis fituate on the River La Mareccia, formerly call'd Ariminus, over which the Bridge is of Marble: finall Ships may go into the Mouth of the River up to the Bridge, but larger Vessels ride under the Castle, where they have 6 to 8 Fa. but open to N. and N.E. Winds.

From Rimini to Ravenna the Course is N.W. by W. 8 to 9 Ls. The Haven here, once so famous, is now quite choak'd up, and the Sea is retir'd from the Land, so 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.

Between the two Cities the River Pifatello, formerly call'd the Rubicon, falls into the Sea, making a finall Haven, but with a Bar, and only fit for Vessels not drawing above 8 or 9

Foot Water.

Farther in the Gulph, N.W. by N. from Ravenna, dist. 5 Ls. stands the Pope's Sea-Port of Commaccio, a place of little use in Navigation, only for Fishing Vessels and other small Crast, for the Haven is not able to receive Ships of Burden.

On this fide Commaccio, the most southerly Bocca del Pe, or Branch of the great River Po, opens into the Sea, and some Vessels go in there, and go up to Ferrara and Bologna; but no Ships can go up, and those that ride near it must have a Pilot, for the Current is so violent that no Stranger can stir there.

From Commaccio to Volano is 4 Ls. N.N.W. Here comes in another Arm of the River Po, and here is a good Harbour made by the faid Branch; but the Frelhes are so violent, especially in the Winter, by the great Waters from the Mountains and Lakes among the Alps, that the Sands in the Port often change, and are so uncertain that no Stranger can go in without a Pilot.

From Volano the Coast goes away N. and N. by E. the Land

call Transcane, blow to constantly as well as violently, that when they fet in, no Ships can stir beyond Mount Angelo; so far indeed they may lead it up, the Coast falling away something to the westward, but there the Land turns again, and pushes out to the north, and then 'tis not to be done: Therefore Ships bound to Venice must keep as much to windward as possible, that is, they must keep the Coast of Dalmatia aboard, and run as far to the northward as they can; and then they may lead it away to Venice as we shall see presently.

Between Cape Barry and Vestice is a large deep Bay, occafion'd by the Land which makes the Cape of Vestice thrusting out so far into the Sea northward, so that with the Tramontane Winds there is no weathering Cape Vestice: Therefore Ships bound farther up the Gulph, should never come nearer Nienopoli or Barry, or any Port on this Coast, than Otranto,

but fland away to the N. as is faid before in good time.

About this Bay, between Barry and Veftice, lie the small Vorts of Mansfredonia, Siponti, and Monte St. Angelo. This Monte Angelo runs out N. as above, making part of the Cape I effice; it is a high Mountain within the Cape, and the sirth Land you make to the westward, after you are thro' the Entrance into the Gulph: Here you have good anchoring in westerly and northerly Winds. This Bay of Mansfredonia is the only Shelter this Coast affords in case of northerly Winds; for here you have deep Water, whereas on all other parts of the Coast the Shore lies slat off, and you have not above 7 to 10 Fa. for 8 or 9 Ls. from the Coast.

Off of this great Point or Promontory of Land you have feveral Islands in the Sea, at a large distance from the Shore, as Gymnasi, Santa de Maria Trinidad, Caprara, Galitia, St. Jacob and Pelagosa, the most northerly of all the rest. From Cape Vestice to Gymnasi you must steer N.W. by N. 9 Ls. it bears S.S.E. from St. Maria 3 Ls. 'tis a small flat Island, and is not to be seen till you are within 3 to 4 Ls. of it. From the Cape to St. Maria Trinidad is 11 Ls. the Course N.W.

N.W. from Cape Veflice, fomething westerly, lies the Port of Tortore; its upon the Opening of a small River, and lies about 3 Ls. within the Land: You will want a Pilot to carry you in here, the Channel in the Mouth of the River being of-

ten shifting and uncertain.

There lies a large Bay a L to the E. of this Port, between it and the Cape, where there is good Riding, but no shelter from the Transactane Winds, which blow right in. On the Point of this Creek, close to the Strand, stands a large Tower of Stone, which is seen far at Sea; it seems to be a Lighthouse, and is a very useful Mark to know the Anchoring-place or Road by; but when you come to it, 'tis only a large Building for Ware-houses, and by it is a Key, where you have 6 to 7 Fa. good hard Sand.

From Cape Veffice to Ortona is 26 Ls. the Course, as on all this Coast, lies N.W. or N.W. by W. There are no Places of Note between but those mention'd above; neither is Ortona

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From Volano the Coast goes away N. and N. by E. the Land bearing in upon the Sea all the way, dift. 17 Ls. to the Entrance into the Port of Malomoco. From Ancona indeed the Course borrows of the W. and you steer N.N. W. westerly, and N.W. by N. the dist. 53 Ls. When you are in the Fair Way sailing for Venice, Mid-Channel of the Gulph, you have not above 23 to 24 Fa. But if you keep nearest the eastern Coast, that is, within 10 to 11 Ls. of it, you will have 40 to 43 Fa. and when you come within the like distance from the City of Venice, you will not have above 16 to 17 Fa.

When you come within 16 to 17 Fa. you will fee the Hills behind the City of Venice, and perhaps St. Mark's Steeple 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 best Ground, and a very good Road.

The Island Malamoco lies in the Mouth of the Entrance into Venice; it stretches N.N.E. and S.S.W. in length between 4 and 5 Miles. To the S. of this Island 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 Island, where the Gallies and small Ships, and most of the Coasting Vessels lie; but Malamoco is the chief Harbour.

If you are bound in for the main Port of Malamoco, and come from the northward, that is, from the Coast of Islivia, keep along the S. Shore, till you bring the Block-houses and some Trees on the Land of the other side to bear with one another; then stand over, and run in close by the Heads or Mole: this going in lies W. N.W. and W. by N.

N. B. There is very little Tide in all the Gulph, and at Venice it does not rile above 3 Foot at the highest Spring. Note Also, that a N.W. Moon makes the highest Tide.

If you would go farther in than the Road of Malomeco, take a Pilot there.

Sailing Directions for the South Coasts of

S. of Venice, among the Rivers and Islands, lies the City Chrosia, dift. 7 Ls. A little to the S. of the Entrance into Venice lies a flat Shoal; you are in great danger of it if you miss the Entrance: for the Winds blowing there, as the Current runs, you will find it very hard to recover the Harbour: There was a stout English Ship lost there once, by that very Mistake.

From Venice to the N. we have no Survey of the Coast, tho there are several Rivers and Bays, in which are good Roads, and which are navigable far in, and particularly the Coast of Frinti, the new imperial City and Port of Trieste, where there is a large Bay call'd the Gulph of Trieste; as also the City of Parenzo without the Gulph, and some others, where good Ships often go in; but as neither the English or Dutch have any Trade in those Ports, our Pilots have not thought them worth their Observation.

From Venice to Rovigno is cross the bottom of the Gulph; the Course is E.S.E. 25 Ls. There is a very good Harbour at Rovigno, 'tis made so, chiefly by some small Islands which lie before the Mouth of it, upon one of which stands a long Pole like a Mast; that Island in passing thro' should be lest to the westward: but there are some Rocks in the way between Rovigno and Parenza, which must be carefully avoided, for many good Ships have miscarry'd on them. The Haven of Rovigno lies in E.N.E.

The great Mountain Caldero is the Mark off at Sea to know the Port by; it is so high, that you may see it in clear Weather within 10 Ls. of Malamoco, where you may see Caldero on one hand, and the Tower of St. Mark at Venice on the other, and so be guided either way, for they lie E. by S. and

W. by N. of one another.

The next Place is the Cape Promontories, which lies S.E. or S.E. by S. dist. 6 Ls. This is not a City, but a Haven between two Rocks, which lie off of Cape de Pella. Between the Rock and the Shore lies a great Shoal, but there is a Channel between, and there the Ships ride, the deepest Water being in the Channel; you must go so near the biggest Rock, that you might toss a Bisket Cake on Shore; the Rock is steep, and all secure. Half a L. off from this Rock is another Shoal S.E. from it, where is not above 8 to 9 Foot Water, you must heave the Lead for it, which will soon discoverit, for you have 16 Fa. just before.

From this Cape dift. 22 Ls. lies Infula Longa, or Long Island; the Course is S.E. easterly: Between them is the Island Sansigo at the S. end of the Island Offero; there you have an excellent Road, clean Ground, and what Depth you please, being secure from all Winds. There is a soul Bank indeed which lies N.W. of the Island, dist. something less than a L. but as there is Water enough over it, the only danger is of losing your Anchor, if you should attempt to ride there: but 'tis clean and good Ground both within and without it.

Within the Island of Officeo lies a Haven call'd Porto Monigo, where there is a good Road as to the Winds, (being well shelter'd but the Ground is foul: And E. of Sanfigo dist. 3 Ls. is the Hard of Sex Police de Nino, where there is a very good cause then them; as Casrola, a N. B.

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cause there are divers Roads and anchoring Places among them; as the Island of St. Andrews, Mellesello, Pomo, Caetse, Casrola, and others.

N. B. The Entrance of Malamoco and the Island Life lie

N.W. and S.E. in a strait Line, dift. 76 Ls.

From Lifa to Lessina is 6 Ls. S.E. This is a very little, but fecure Haven, nor is it able to receive above three or four Ships of burden at a time: The City lies close to the Water's edge within the Haven: You have 12 Fa. Water when you are in, but the Rocks and Islands lie to thick, and there is to little room to stir, that you should take a Pilot both in and out. But the best Haven among all these Islands is Porto Palormo. lying not above one L. from the Haven of Lessina due N. and upon the same Island; the Entrance is between two Mountains, and when you are in, 'tis still Water like a Mill-pond, no Wind can diffurb you; the Ships lie broad-fide to the Shore, with Head-fasts and Stern-fasts, and no need for Anchors or Cables. There is also another small Haven between the last two, which is call'd Porto Grego, where you lie moor'd to a Rock, and fafe from all Winds. There are many fmall Islands lying before the Entrance into these Havens, and you may anchor among them, but 'tis not advisable, for the Ground is generally foul, and the Water very deep, at least 30 to 35 Fa.

There are so many good Roads and Havens among the other larger Islands, that you need run no Hazards in these doubtful Places: There are good Roads at Torkello, VAgosta, Andria,

Braffa, Corfiola, Porto Carbon, and many others.

N. B. There is a little Island in the middle of the Gulph, call'd Pelagofi, mention'd before; 'tis dist. from Cape Vestice 13 Ls. N. and from the Isle of Lisa 12 Ls. S. It is very needful Strangers should have notice of it, it being dangerous in the night. There is also a small Rock lies about a League eastward from the Island; 'tis dangerous, because it lies even with the Water, and sometimes is cover'd. There is another great Rock between that and the Island, but that is always above Water.

In the Island Corfiola is the City Corfolla, a Place of note and with a very good Haven, secure from all Winds on that side, lying on the S.W. part of the Island, and having five little Rocks lying in a Semi-circle before the Entrance; so that no-

thing can hurt a Ship when once it is in.

Within this Island lies the Point of Sabioneella, and the Town of the same Name on the S.W. Shore of it; there is 22 to 23 Fa. Water between, and good riding, but the Passage is block dup with Rocks at the S.E. end, so that there is no passing in or out, but with extreme hazard, unless you take a Pilot: The only clear Passage is close under the Main.

From hence going on S.E. and S.E. by E. is the Island Malleda, dift. 5 Ls. Here is a River and Port; and tho the River can be but of short Course, the Island being only 6 Ls. long, yet it is navigable 2 Ls. and the Channel very deep, from 35 to 50 Fa. Here are also three other small Islands, having Havens or Roads at them all, viz. Sr. Augustine, Jappano, and Isla Mesa.

From Malleda it is 6 Ls. E. to the City of Razufa, throng'd

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Within the Island of Offero lies a Haven call'd Porto Monigo, where there is a good Road as to the Winds, (being well thelter'd but the Ground is toul: And E. of Sanfigo dift. 3 Ls. is the Island of St. Pedro de Nino, where there is a very good Haven: This is the most foutherly of all the Islands, whereof 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 that you need no Pilot.

Next you come to Long Island; there are several Rocks and Islands lie between it and the last mention'd Islands, and abundance more between it and the Shore; the chief of those between Long Island and the St. Pedro, is the Island of Molato, where is also a fine Haven call'd Porto de Molato, where you

ride in 30 to 35 Fa.

Infula Longa is indeed, according to its Name, a Long Island, lying parallel with the Shore, 30 Miles in length, and fearce two over; stretching N.W. and S.E. There are many finall Islands 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 fo near that the Mouth of the Haven is thut up with a great Chain, and in case of War with a Bomb: But it is open'd for the paying a small Duty, which the Pilots include in their Wages, and account for to the City.

From Long Island it is 10 Ls. to Cape Cesto, where there is a tolerable Road, but no Haven: The Course to the Cape is S.E. and from thence due E. to the Island of Bua, where indeed is no Haven, tho the Water is deep, and the Shore bold and

fafe; so you need no Pilot.

From Bua you turn to the fouthward to Lifa; it is a small Island, and has a good Haven on the N.E. end, but goes in S.S.E. it is dist. from Bua 9 Ls. At the W. end of Lifa is another Harbour, or rather a Road, call'd Porto Camifi; there is good anchoring, but a Westerly and W.N.W. Wind blows right in: There is good riding in most places round this Island, but always open to one Point or other.

Here are other Islands as well without as within, which tho many of them are uninhabited, are needful to be known; beand with fide, lyi Rocks ly thing car

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From Malleda it is 6 Ls. E. to the City of Razusa, throng'd with Islands and Rocks all the Course; just before the Port lies the Island Cromma, and the Road which is very safe and good lies between; the Port of Razusa is known by the Church upon a Mountain behind the City, which is seen a great way to seaward.

From the Island Malleda to Catarro is 12 Ls. E. by S. and E.S.E. The Gulph of Catarro is the Mouth of a considerable River, but not navigable, higher than the City; there is a very good Road in the Mouth of the Gulph, and a Fortress call'd Castle Nova; but the chief Road and Harbour is before the City, where there is a good Haven, but you must go up with a Pilot:

From Caflle Nova to Budoa is 5 Ls. the Course S.E. by E. There is a good Port at Budoa, and a very good Road behind the Point on which the Castle stands; as there is likewise at Antonari on the same Coast. Six Ls. from Budoa lies the City of Dulcigno; the Course likewise S.E. by E. At Dulcigno there is a Road, but no Haven; and at Valdenosi, which is just by it, is a good Road; but there is not one good Haven on all this part of the Coast, till you come to la Valona.

Next to this Fort is the Gulph of Lodrin, where is a City of the same Name, and a River with a good Road for large Ships, and under the Shelter of a Castle.

Just under the S. Point of the Gulph of Lodrin S.E. lies the City and Harbour of Durazzo. From the Island Malleda hither, the Course is S.E. by E. 53 Ls. and from Durazzo to Valona is S. 17 Ls. This last is an excellent Haven, there is an Island just at the Entrance which breaks off the Sea, and tecures it from southerly Winds, the Main shelters it from northerly; and the Points of the Entrance, being both very high Land, secure it from the E. and W. so that nothing can hurt you. Here is also a very good Watering place.

From the Port of la Valona, but in particular from the Island Sousin at the Mouth of that Haven, it is 15 Ls. to the

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Island of Fanu, off of the N. end of Corfu, the Course S. by E. Between Fanu and Corfu is a good Road, under the Lee of a little Island call'd Marlere, as also behind the Rocks call'd Frescoglie, which lie on the same side of Corfu, and under the N. end of Corfu it self; in both which Roads you have 10 to 12 Fa.

If you come in from the northward, and are bound to Corfu, keep the Main on board, and go in by the Island of Serpe, which lies just at the Entrance; but you must have a Pilot, as well for the Bay and Haven of Corfu, as for the whole

Passage between the Island and the Main.

The S. end of Corfu is called Cape Blanco; there is a Shoal there runs off from the Point a great way into the Sea, which you must avoid if you come from the southward, by keeping close to the N. Point of the Island Pachsu, till it bears S.W. by S. and till a high round Mountain upon the Main shews it self to the southward of the Point of Corfu, and another Island shews it felf also near the Main: Keep these 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 Island Fanu to Pachsu is 23 Ls. the Course S.E. by S. and from thence to the Isle of Cephalonia is 32 Ls. S.S.E. There are several Havens in Cephalonia, the best is called Porto d'Arozosto, or Arozostoli, to the southward of Cape Sidero. There is a good Road behind the Island Guardia, before you run into the Haven, where you have 8 to 9 Fa. and the Island reaches E. and W. on both sides the Haven: Cape Sidero is the westermost Point of the Island; and the White Point, or Cape Blanco, is the S. Point, and lies opposite to the Island of Zant, dist. about 5 Ls.

To fail from Cephalonia to Zant your Course is due S. if you come from the Port or City of the same Name with the Island; but if you come from the Island Guadiana, the Course is S.E. by S. To go into the Harbour of Zant, you must make the N.E. Point sirst; then keeping up to it, sail along close by it till it comes abast the Mast, and then go directly for the City, which you will see before you. There is good anchoring almost 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 self, within the Heads. The N.E. Winds blow right in and make a foul Sea in the Road.

On the S. part of the Island, between the S. and S.E. Points, is a very large and commodious Bay, with very secure riding in 8 to 12 Fa. with an Island on the S.E. side, which breaks off the Sea and shelters from the Wind at the same time: The Shore is sull of Rocks all about, which makes that Road the safer when you are in. The Turkish Fleets often ride here, tho the Island is not their own, there being no Forts or Batteries to prevent them.

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Channels in, and some Difficulties in the Entrance, you may avoid all by taking a Pilot at Sapienza, and the same for the Haven of Navarin which is on the other side the Point.

There are several Islands lie off of this Bay and off the Point, between which you may fail if you are bound out of the Sea to Modon; and among them are several very safe Roads, and good anchoring, such as Venetera, Caurera, and Sapienza it self, as also the Bay of Carama, Vitello, Jabega, and Corota. In this Space, and S. of Cape Matapan, dist. 16 Ls. and 3 Ls. N. from Venetica, lies the Bay and City of Coron; you will see it at Sea as you sail 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 Description, for 'tis all open before it, and clear Ground.

Cape Matapan lies E. by S. from Point Sapienza 16 Ls. 'Tis a sharp Point, without any good anchoring-ground on either side of it, and the Water exceeding deep, being 50 to 60 Fa. in some Places. To the northward of the Cape about 4 Ls. is a large deep Bay, where you may ride with great safety: This is on the E. side of the Cape, and on the W. side is a great Rock about half a L. off from the Shore, but it may be

icen above Water.

The Cape is very uneven, so that the extreme Point, which is high, looks at a distance like an Island. To the eastward lies a great Bay in the way to St. Augelo, and to the northward in the Bay is a good Haven, especially for Vessels bound to the eastward. There is an old ruin'd Castle a little within the Land, by which the Haven may be known, especially by its having a Wall reaching from the Castle to the Water's-edge. To go into the Haven, you must fail right with the said Castle in the Fair Way, avoiding either Shore, for both are foul.

There is a great Rock also 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 10 to 15 Fa. The Anchor-hold is good, and you are shelter'd from all Winds. From this

Haven to the Island of Serigo is 9 Ls. S.S.E.

There is another good Haven also N. of the Point, dist. 3 to 4 Ls. safe and deep Water, as the other; it is known by a red Point on the S. side, and a Castle on the N. side of it: You need no Pilot here, but may run in directly between the red Point and the Castle; go as far up as you please, you will have 12 or 16 Fa. good hard Sand, and clean from Rocks. From Serigo to this Haven the Course is N.W. westerly: In the same Bay is the Road of Paguano, a Place much frequented by Seafaring People.

Due N. from the Cape lies the Haven of Rapa, antiently Rapini; if you would go in there, 'tis needful to take a Pilot.

All this Coast from Modon to Cape St. Angelo is call'd by the Inhabitants Brat fa de Meyn; 'tis all the way full of Havens and Ports, and good Roads.

From Cape Matapan to Serigo the Course is E. by S. 9 Ls. it lies from the Main at least 4 to 5 Ls. The Point of the Island lies high, as does also the Main beyond it; so that as

S.E. by S. To go into the Harbour of Zant, you must make the N.E. Point first; then keeping up to it, sail along close by it till it comes abast the Mast, and then go directly for the City, which you will see before you. There is good anchoring almost 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 self, within the Heads. The N.E. Winds blow right in and make a soul Sea in the Road.

On the S. part of the Island, between the S. and S.E. Points, is a very large and commodious Bay, with very secure riding in 8 to 12 Fa. with an Island on the S.E. side, which breaks off the Sea and shelters from the Wind at the same time: The Shore is sull of Rocks all about, which makes that Road the safer when you are in. The Turkish Fleets often ride here, tho the Island is not their own, there being no Forts or Batteries to prevent them.

Opposite to the Port of Zant and on the Main, is a Port and Road call'd Torne se, much used by English Ships for lading

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Currants; but 'tis a bad Road and foul Ground.

Seven Ls. S.E. from Zant lies the Island Siravalli or Staffadia; 'tis noted only that it may be avoided, being foul all round, and lying so low, almost even with the Water, that 'tis very dangerous, for Ships are almost soul of it before they see it. From this Island to Cape Sapienza on the Morea is 11 Ls. The Course S.E. by S. The Island Sapienza, from whence the Cape has its Name, lies 2 Ls. sarther S. and E. of the Point lies the samous City of Modon, and N. of it the as famous Haven of Navarm: If you are bound into any of these Ports, you will find it necessary to take Pilots.

All the Coast 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 Gulph of Corinth, call'd now the Gulph of Lepanto, we have no need to take the Survey of it here. 5 Ls. N. of the Point of Modon is a very good Road, where you are secure from easterly and westerly Winds, but a S. or S.S.W.

Wind blows in, and makes it an uneasy Road.

As Modon is noted for Shipping, 'tis necessary to describe it a little: The anchoring Place before it is a clean fair Strand, the Ground good, and what Water you please. There is a way into the Road between Cape Sapienza and the Castle; but you have no anchoring till within a Mile of the Castle, where you have from 10 to 20 Fa. but as there are several

Sailing Directions for the Sea Coasts of the Isl North from Cape St. J

HE westermost Point of the Island of Candia is call'd Cape St. John Baptista, it lies from Cape Passaro in Sicily E. by S. 140 Ls. or thereabouts. This Cape St. John 1, low I. and, and the Ground about it is foul, there lying near it two or three great Rocks; but to the eastward of the Cape

you must make fail along close by directly for the is good anchornt and the N.E. It the N.E. Point, Fa. good holding by Haven it self, ght in and make a

d. and S.E. Points, ery fecure riding which breaks off fame time: The test that Road the soften ride here, no Forts or Batte-

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part of the Land of the Morea.

Under the S. Point of Serigo, on the E. side 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 best 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 Island, lying one L. from the Shore, is a great Rock call'd L'Ovo, or the Egg; but as it is above Water, the Danger is the less. 3 Ls. off of the S.E. Point lie the Dragooners, they are three little rocky Islands with a good Road under them, on the side of the main Island; they are good Marks to know the Island by, and so is the Island for them. Under the northermost of those Dragooners you have 22 Fa. with a Fast to the Rock, and no Danger, being well shelter'd from all Winds.

From the E. side of Serigo to Cape St. Angelo is 6 Ls. the Course N.E.

N. B. This Island is generally the Place, where Ships bound out of the Adriatick Gulph for Constantinople, or any of the Islands in the Archipelague, come to an Anchor for a Wind, and so again in their Return.

N. B. The Islands of Serigo and Serigoto lie in the Fair Way between the Islands of Candia and Cape St. John Baptist on the Island of Candia, that Cape and Cape St. Angelo in the Morea, bearing due N. and S. dist. about 24 Ls.

Coasts of the Island of Crete, or Candia, beginning on the from Cape St. John Baptist inclusive.

Candia is call'd Cape Passaro in This Cape St. John there lying near ward of the Cape it is very good. At the westermost Point also, somewhat towards the S. there lie several dangerous Rocks; there the Land trends away N.N.W. 4 or 5 Ls. but to the northward of Cape St. John it stretches N.E. 9 Ls. till you are past three Islands which lie to the northward of Cape St. John: One of these

Inanda

Sailing Directions for the Coasts of the

Islands lies 3 Ls. from the main Island of Candia towards Serigo; and from thence you may see the Island Serigoto, which lies between them, bearing N. 7 or 8 Ls. from you.

When you fail by the aforefaid Island, you may also see Cape Spado, bearing N.E. from you. This Cape is a high Point of Land on the N. side of Candia; and eastwards from it, about 12 Ls. the Land appears like another great Cape: But that Cape is 3 Ls. farther to the eastward, and is a high steep Point call'd Mallecha. Upon the W. end of an Island off of Cape Spado, where you will see a great many Cypress Trees growing, there is good riding, and good Anchor-ground, and fresh Water to be had at several Places with great convenience.

Between Cape Mallecha and Cape Spado lies the City of Canea, in a deep Bay, which reaches in S.E. by E. and where there is very good anchoring for Vessels under 100 Tun.

About a L. W. by S. from Canea lies the Island Urula, on which there are two Castles. On the S.E. side of that Island there is a good Road, but you must fail to the eastward of the Island to get into it; for on the S. side there is a Ledge of Rocks reaching from the Main to the Island, so that you cannot sail thro' to the southward: You may also anchor close under the Island on the E. or on the N. side, for there it is very clean; and you may lie with your Ship-side close to the Shore.

When you lie in that Road, the E. Point of the Island lies N.E and the E. part of the Island of Candia E.N.E. from you.

A little to the westward of Canea are several Rocks under Water very dangerous, so that you must be careful to avoid them. The Haven of Canea is not able to receive great Ships, but Ships of a small Draught may go in very readily, and lie near the Shore, tho the Ground is not very clean.

Cape Mallecha or Mellacha is a high steep Land, and may be very well known. On the E side of it lies Suda, or Zuda, a very fair Haven, the best on that side of the Island, without which lies a Rock, and upon the Rock stands a Castle, near which you may ride in 12 or 14 Fa. and but a little way off you will have 30 to 40 Fa. and at some places soul Groundtoo; therefore you must anchor under the Castle; for if you are past the Rock, there is 50 or 60 Fa. The Ground round about this Rock is clean and dry, but every where else loose and foul.

Five or 6 Ls. to the eastward of Zuda lies the City of Retime, where there is a very good Bay, and a Road for all southerly Winds. About 12 Ls. to the eastward of Cape Mallecha lies the City of Candia, the Capital City, (as well as the best Port) of the whole Island, tho the Haven is almost like the Haven of Canea, only sit to receive Ships of a small Draught.

Four Ls. N.N.E. of the City of Candia lies an Island call'd Standia; you may see it when you are just past Suda, the Land being very high at Standia. You have 3 convenient Havens here, the westermost is the worst, and there stands a Tower on the W. Point; but the two eastermost are very good Harbours, where you may lie with a Fast ashore.

About a Musket-shot to the eastward of Standia lies a very high Rock above Water: also a little N.W. of Candia lies a Point of Landcall'd Friskin. When the 2d snowy Mountain bears S. by W. from you, then steer away S.S.E. till the Island

be known, nam When you bring in your failing fr. City, where yo Point of Friski the City of Can the eastermost we choring and goothe Haven.

The Haven o Entrance. Com will not have about 4 Foot. On that the S.E. fide lithe Mole, must built, and leave on the other side come within the an Anchor close Mole, and 2 An If you would

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be known, nam'd Mount Ida, call'd by some Moses's Temple:
When you bring that to bear S.S.W. from you, or sirst make it in your sailing from Standia, you will be then just before the City, where you may anchor in 20 or 15 Fa. and then the Point of Friskin will bear N.W. the Island of Standia N.E. the City of Candia S.W. and the outermost part of Candia to the castermost will then bear E. from you; there is good Anchoring and good Ground, and from thence you may see 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 Foot. On the N.W. fide of the Haven stands a Castle, and at the S.E. side lies a Mole; now those that would ride within the Mole, must fail nearest to the side on which the Mole is built, and leave the N.W. side, on which the Castle stands, for on the other side is the most Water: and as soon as you are come within the Mole, you must lust up round, and come to an Anchor close under it, riding with 2 Fasts ashore on the Mole, and 2 Anchors out astern towards the City.

If you would fail from the City of Candia castward, then fail from the Island Candia, or the Island Standia, due E. and you will come right on the Island Scarpanto, to the Westward of which lies the Isle of Caxo. If you would go between them, keep nearest to Caxo, for near Scarpanto lie some sunken Rocks, which you ought to beware of; they may be discern'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 Cape Solomon, the Place is wide and large

to fail thro', and sufficient Depth of Water.

The eastermost Point of Candia, which is Cape Solomon, is a reasonable high steep Point, with an Island close by the same,

but no Anchoring thereabouts.

Five or fix Ls. to the eastward of this Cape, at the S. end of Candia, lie 2 Islands call'd Christiana; you may fail between those Islands and the Island of Candia, whithersoever you are bound.

Ten Ls. to the westward of these Islands lie other two Islands call'd *Chaldereno* or *Calderoni*; and a little farther westerly about 15 Ls. lies the Island of *Cabrera*: they both lie very close to the Land, no Channel sit to sail thro' being between.

Due E. from Cabrera lies a fair Bay, in which is a good Road: there lieth another also to the westward, which likewise is a good Road. From thence W.S.W. 12 Ls. lies the Island Goso, and another low Island to the westward of it, call'd Antegoso.

Goso is high at the W. end; and at the N. side is a fair landy Bay, and a good Road: there is good fresh Water to be had; and at the S.W. Point of Goso, not far from the Land, lies a Rock under Water, which is very dangerous.

Goso and Cape St. John, being the westermost Point of Candia, lie N.W. by N. and S.E. by E. dist. 11 Ls. from each

ther.

Those that come from Cape Passaro in Sicily, and would go to the southward of Candia, should fail E. by S. somewhat southerly, otherwise they will not get to the southward of Candia.

The S. fide of Candia is towards the W. part of it, very high Land, most times cover'd with Snow, and reaches about

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bound. Ten Ls.

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Due E. fr there lieth good Road. and another

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Sailing Directions for the Coasts of the Morea, fro the Passage thro' the Archipelague, and the sev Passage, to the Dardanelli, and the City of Const Navigation of all the Coasts of Europe.



N failing thro' the Agean and Ionian Seas, antiently call'd the Archipelago, but by the Moderns the Archipelagu, and by the Sailors the Arches, you may take feveral Couries, according as the Port lies to which you are bound, supposing you come

from the West, or at last touch'd at Cape Sr. Angelo on the S.W. Point of the Morea: But of all the rest of the Passages, two are in particular the most used, and esteem'd the best Chan-

nels, being in the Seamens Language, The Fair Way.

1. The 1st, which palles from between Serigo and Serigoto N.E. by E. after going in fight of Cape St. Angelo, steers N.N.E. and then N. by E. passing between the Islands of Zea and Macronisi, and with the same Course, a little more northerly, goes between St. Andrea and the S.E. end of the Island of Negropout; then steers away due N. and N. by W. and N.W. either for Salonichi, and the Gulph of Volo, or N. by E. to Mitylene and the Dardanelli for Constantinople.

N. B. This is the afual Course the Venetian Ships take when they go the height of Lemnos and Tenedos.

2. The 2d Courle is, passing from the same Point between

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The E. From Cape full of deep part of the

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Goso and Cape St. John, being the westermost Point of Candia, lie N.W. by N. and S.E. by E. dist. 11 Ls. from each

Other

Those that come from Cape Passaro in Sicily, and would go to the southward of Candia, should fail E. by S. somewhat southerly, otherwise they will not get to the southward of Candia.

The S. fide of *Candia* is towards the W. part of it, very high Land, most times cover'd with Snow, and reaches about half way the Island; but from thence castward it is low, and shows at a great distance to be Hills, and broken Land, tho when you come nearer to it you find it otherwise.

he Morea, from Cape St. Angelo exclusive; with e, and the several Islands and Coasts in the said City of Constantinople inclusive, compleating the ope.

s, antiloderns Arches, he Port u come on the affages,

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Serigo and Serigoto, or perhaps between Serigoto and Candias they go away N.N.E. and leaving Milo on the Starboard-side, pass between the Islands of Serson and Siffanto; then passing between Tinos and Mycone, steer away N. between Scio and the Main for the Gulph of Smyrna.

The E. and N.E. Coasts of the Morea come first 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 Angua to Napoli de Malavasia, Napoli de Romania, and Napoli Vechia, or Old Napoli. This Coast has not been under any exact Survey, the Morea having been Turkish for many Ages, a few years excepted, in which the European Merchants had so little occasion to go among them, or make use of their Ports, especially on that side, that they are scarce known to us.

The Passage of our Trade (so the Seamen call our Ships that

The Passage of our Trade (so the Scamen call our Ships that pass for Trade) from St. Angelo to Zea lies N.E. by N. and steering half a Point northerly, carries you clear between Zea and the Island Macronist: that Passage which is the Fair Way

is

is more than 3 Ls. broad, a clear Sea, and full of Shelter on all Occasions.

In the passing this length, you have several Islands on both hands of you, and many of which you will see or not see, as the Weather is clear or hazy, viz.

1. Maricarvo. 2. Terra Polla. 3. Falconera. 4. St. George or the Cardinals Hats. 5. Milo. 6. Antemilo. 7.

Firmio, and several other smaller Islands.

Angelo 8 Ls. 'tis a black rough Rock and no better; finall for an Island, but large for a Rock, 'tis about as big as the Hulls of 2 or 3 Ships; it is of no use to be described, but that it may be avoided by the Mariners; there is no Riding about it or going near it: you leave it on the Larboard-side, and go on to Falconera E. by S. 6 Ls. This Island lies to the eastward of the direct Passage above-nam'd; but they who go to the eastward of Grava, choose to go to the eastward of this also; nor is it of any Consequence on which side you go, so that you keep at a good diffance from them both.

Terra Polla, or Bella Polla, as fome call it, lies more to the westward of the Passage; it lies from Cape Angelo N.E. by N. 10 Ls. It is a small high Island, and makes like 2 Islands with 2 high round Hills; it bears with Grava N.N.W. and

S.S.E. dift. 1 Ls.

St. George, or the Cardinals Hats, lies in towards Cape Colonne and the Gulph of Athens, or the Eubean Sea, S.W. by S. from the Island Macronist; 'tis high and steep, and easy to be known by the tops of the Hills, which make our Sailors call it the Cardinals Hats. In the Fair Way nam'd above you go close under it, but there is no Road or Harbour in or near it, and hardly any Bottom about it.

Macronifis a low flat Illand, having two finall Hills at the S. end of it about a Mile afunder, and by that Mark it is to be known; they are indeed upon two little Iflands diffinct from, but close to the main Illand, and are not feen to be Iflands as you pass along: the Ifland it felf lies N.N.E. and S.S.W. a little

casterly and westerly.

Zea is higher Land, and near it is another Island call'd Firmio; they are both hilly: There is a very good Haven at Zea, able to receive a great Navy, being well shelter'd, and having any Depth of Water from 20 to 30, and 32 Fa. and with gradial Shoalings to 2 Fa. In the best of the Road you have 17 to 18 Fa. and in another Part good Riding in 7 to 10 Fa. The Entrance is narrow, tho without any Castle or Guns: you go in due S.E. or a little southerly: but when you are in, it spreads every way to the E. and N.E. and to the S.W and S.

From Zea to Macronist the Course is N.W. northerly: St. Ge. rge lies from you W.S.W. and the Isle of Negropont due N.8 Ls. You will know the Haven of Zea by very good Marks; as first, a white Church or Steeple on the N. side of the Entrance into the Haven, which is seen off at Sca 4 or 5 Ls. Open with the Mouth of the Haven, you see a round Mountain with

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Besides the Haven, there is also a good Road without the Harbour, under a little Island, due W. from the Harbour's Mouth, and not a L. off: There you ride also very safe, in 18 Fa, hard sandy Ground. Also on the E. side 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 self a Haven, tecure from almost all Winds, and good Anchoring any where.

At the Island Pelenda there is good Anchoring in 17 to 18 Fa. good Ground; it lies S.E. from Athens about 3 Ls and W. by S. from Cape Colonni 4 Ls. but there are many Rocks about this Island, and some of them under Water, which is dange-

rous; otherwise in all this Gulph you need no Pilot.

Between Macronisi and Negropont lies the Island of Andros, call'd here Andrea: it lies from Zea N.E. by E. 8 Ls. The Channel between this and Negropont is about a L. broad: there is also a Channel between Andros and Tinos, which is 2 Ls. broad; and either of these serves for the same Course northward: But the first is the safest Passage, tho not the broadest; for on the side of Tinos there are Rocks under Water, and those that use this Channel must be careful to avoid them, by keeping to the side of Andros; and if they are to turn it up, must not stand over too near to Tinos.

Having gotten thro' this Channel, they may fland away for Scio and Smyrna, as they please, or keep to the N. and steer for Mitylene and the Dardanelli. If they would go for

Scio, the Course is N.E. by E. 18 Ls.

The Isle of Andros stretches away N.W. dist. from the Mouth of this Channel 9 Ls. to some small Islands which lie on the W. side of it; and from thence N.N.W. N. N.N.E. and at last N.E.. At the W. end of the Island there is a Haven, but 'tis a forry Place, sull of Rocks, and very difficult to get in if you are out, (and may be in distress) or to get out when you are in; nor is it good Riding when you are in. From the N. Point of Andros to Scio is 16 Ls. the Course is E.N.E. and to the Island call'd the Caloyers 5 Ls.

To go from Cape Angelo to Scio, the Fair Way is as before; but your exact Course is E. N.E. a little northerly. After you are past the Island of Antemilo, go away N.E. by E. according as you have the Wind; as to the Islands in the way, it is not of absolute Necessity to leave them on this Board or on that; for most of them may be fail'd round on any board, and you may come into the Course again, when you are past them.

The first Island you make from the Cape is Milo, or Millo, due E. from the Cape: It is high Land, and makes in the Shape of two Hills, the southermost is the biggest, Antemilo is less, but as high as the other, and round in form, come to it which way you will: the Course to it from the Cape is E. by N. and from Milo N.W. you may see it 10 to 12 Ls. at Sea. There is a good Haven on the N. side of Milo, it goes in S.E. by S. and S.E. and is secure from all Winds: But in case of a northerly Wind there goes a great Sea; it is very good when you are in a proper bearing within the Haven, but you must not go in, or moor your Ship when you are in, without a Pilot.

you pals along: the Island it felt lies N.N.E. and S.S.W. a little

cafterly and wefferly.

Zed is higher Land, and near it is another Hland call'd Firmio; they are both hilly: There is a very good Haven at Zea, able to receive a great Navy, being well shelter'd, and having any Depth of Water from 20 to 30, and 32 Fa. and with gradual Shoalings to 2 Fa. In the best of the Road you have 17 to 18 Fa. and in another Part good Riding in 7 to 10 Fa. The Entrance is narrow, tho without any Castle or Guns: you go in due S.E. or a little southerly: but when you are in, it spreads every way to the E. and N.E. and to the S.W and S.

From Zea to Macronia the Course is N.W. northerly: St. Gerge lies from you W.S.W. and the Isle of Negropont due N.8 Ls. You will know the Haven of Zea by very good Marks; as sirst, a white Church or Steeple on the N. side of the Entrance into the Haven, which is seen off at Sea 4 or 5 Ls. Open with the Mouth of the Haven, you see a round Mountain with a large Building on it, like a Church or Cloister: beyond that you see the Land much higher than the Building, and on it 5 Windmills altogether; bring those Mills to bear S.S. E. and go with them so, and you will soon see the Church on the Point of the Haven.

The Haven runs in S.E. by S. and notwithstanding it is so good Riding, yet it is so large when you are in, that you will find you may want a Pilot to direct you where to ride.

There is a good Haven at Macroness also, but not like that of Zea; it goes in on the W. side between the Island and the Main: you may fail thro', but there are many Rocks at the N. end of the Island, which you must be very careful of: If you are bound in either to the Haven, or to go thro' the Passage, take a Pilot, for 'tis difficult.

N. of the Island lies the Haven of *Porto Raphti*, being at the Entrance into the Channel of *Negropout*, or between the two Islands: 'tis fam'd for being the most convenient Haven in all the *Arches*, and especially for Ships in Distress, because

you run in so readily with almost any Wind.

N.W. from Cape Colonni goes in the great Gulph of Angia, which reaches within 6 Miles of the Gulph of Corinth, but is ignorantly by the Pilot Books call'd the Gulph of Corinth; whereas the Gulph of Corinth is the fame which is now call'd the Gulph of Lepanto, and opens into the Mouth of the Adriatick Gulph, about 20 Ls. N.E. from Cephalonia. This Gulph is by some call'd the Gulph of Cenchraa, because the Haven of Cenchraa lies at the farther end of it. Cenchara was formerly the Port on this side to the City of Corinth, as Lecheus was in the other Gulph, now call'd of Lepanto.

In this Gulph is the Haven of Athens, now call'd Porto Lion: 3 Ls. E. of it stands a Castle upon a high Mountain, which is the Mark by which the Haven is to be known: The Haven is good still; the Entrance is like that of Zea, narrow; but when you are in, 500 Sail may ride at large in 9 to 10 Fa. good clean Ground, and safe from Rocks or Storms.

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call'd *Porto* h Mountain, known: The *Zea*, narrow; n 9 to 10 Fa. ns.

To go from Cape Angelo to Seio, the Fair Way is as before; but your exact Course is E.N.E. a little northerly. After you are past the Island of Antemilo, go away N.E. by E. according as you have the Wind; as to the Islands in the way, it is not of absolute Necessity to leave them on this Board or on that; for most of them may be said round on any board, and you may come into the Course again, when you are past them.

The first Island you make from the Cape is Alilo, or Millo, due E. from the Cape: It is high Land, and makes in the Shape of two Hills, the fouthermost is the biggest, Antemilo is less, but as high as the other, and round in torm, come to it which way you will: the Course to it from the Cape is E. by N. and from Milo N.W. you may see it 10 to 12 Ls. at Sea. There is a good Haven on the N. side of Alilo, it goes in S.E. by S. and S.E. and is secure from all Winds: But in case of a northerly Wind there goes a great Sea; it is very good when you are in a proper bearing within the Haven, but you must not go in, or moor your Ship when you are in, without a Pilot.

Antemilo lies close to the Haven of Milo, so that it almost blocks it up; which makes the Harbour of the last the more secure: there are several Rocks between, to go among which the Pilots will inform you.

On the NE fide of Milo lies Argentera, a finall Island; and between them is a good Anchoring abreast of a white old Church; it is call'd the Road of Argentera: you have 12 to 13 Fa in it, and good Ground.

There is also a Haven at the S.E. end of the Island Serfou; but 'tis Pilot's Work to go in. There is a small Haven also at

Sifanto.

As the Fair Way from the westward to the Port of Smyrna lies between the Islands of Serfon and Sifanto, and then between Tinos and Mycone, those that are bound to Smyrna should be careful in this part of the Passage, which is the most difficult; the first part of the Course is N.E. by E. and E.N.E. towards the S. end of the Island Syra; then an E.N.E. Course leads them to the Channel of Tinos, and between Tinos and Mycone. In the middle of this Passage hes a great Rock call'd Lavatto, a little part of it is above Water, and that but a little way; so that coming in the Night, it may be over-look'd, or in dark Weather. Those that are bound thro' this way, would do well, not to go too far off from the Island of Syra, which is the best way to avoid it.

There is another great three-corner'd Rock quite under Water, at the S. end of Syra; it lies steep and sloaping all along from

the S. to the N. end of the Island.

Syra has a Haven at the S.E. end; it lies due N. from the cover'd Rock; 'tis a difficult Entrance, and you must have a Pilot. The Channel between Tinos and Mycone is near five Mile broad; there is a Ledge of Rocks indeed in the Passage, call'd the Dilles, which at the W. end grow up into finall Islands, but they are all above Warer.

Tinos has no Haven for any thing bigger than a Long Boat; but there is a good Road in a fine fauly Bay on the S.E. fide of

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Sailing Directions for the Paffage of the At

the Island; there you may anchor in 15 to 20 Fa. Nor is there any good Haven at Alycone, but several good Roads, especially under the westermost Point of the Island, where you ride before the Town in 15 to 20 Fa. good Ground and well shelter'd from N.N.E. E. and S.E. Winds; but a S. and S.W. blows right in: yet 'tis counted to good a Road, and so equal

10 a Haven, that many Merchant Ships winter here.

From this Channel to the Island Scie, or to Venetice, a Rock at the S. end of Sci., is 18 Ls. the Course N.E. by N. In the way from this Passage to the Gulph of Sciences, is the Island Skives, lying from the castermost Point of the Isle of Negropout due N. dist. 13 to 14. Ls. On the S.W. side of it is a Hiven, and at the S. Point of the Entrance into it lie two great Rocks, and they are no more, tho call'd Islands; they are of a red Colour, and seen a great way, and are a Mark to know the Haven by; there is good Riding in this Haven with all Winds, and a fair Entrance without any need of a Pilot.

There are feveral good Anchoring places and Roads on the other fides of this Island, and particularly in the Passage between a long narrow Island on the N. fide of the Haven, and the main of the Island, where you he well shriter'd in 8 to 12 Fa. On the S. fide also is another in a Bay with 17 to 18 Fa. where you lie with a Head-tast on Shore. The Greek Pilots

lay that the whole Island of Shires is a good Haven.

From Styres to the S. part of Schappeli is 17 Ls. the Course N by W. This Island makes the S. part of the Entrance into the Gulph of Salericht. A little beyond the N. Point of it, there is a very convenient Haven, the Entrance lies E. by S. and E.S.E.; it is narrow, but clear, and fale failing in or out: the best Riding when you are in, is on the S. side under a Point; there you will have 10 to 20 Fo, made fast to a Post on the Shore, and one Anchor in the Water. You are also shelter'd from all Winds, saving that a westerly Wind hinders your coming out; the great Inconvenience is, that when shut in with those Winds, the Turke's Men of War often come and make Prize of the Ships.

There is a Road without the Haven among fome Islands, but the Riding is not very easy, the Depth being to areat as 30 to 60 Fa. and the northerly and fournerly Winds browing tight in bring in a great Sea, so that Ships are apt to tay lashore.

There are abundance of small Islands lying about this Gulph, but no other Haven. From hence to the Island Schrata is 5 Ls. W. N.W. it is a small Island in the Entrance into a very deep large Bay: This is part of what is call'd the Gulph of Palo. At the S end of Schrata he 5 or 6 other Islands, and behind them the Entrance into the Bay, you may ride where you will, and go in or out between any or all of those Islands; there is every where Depth enough, and no Rocks under Water any where.

There is only one Ledge of Rocks that are dangerous; they he between this Island and Schapfalt; there is but 5 or 6 Foot Water upon them, and some Ships have been lost there: you may easily have we them by the Rippling and Breach of the Sea

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Having past between the Islands, between the E end of Negropout and the life of Andros, the Course is N.E. to Ality-Line, or E. by S. to Scio and Smirna.

The W. Point of Mitylene is call'd Cape Seguro, or Seguiri; and the next Point on the Main, that is, which makes next in your Passage forward, is call'd Cape &t. Flarye, but by the Greeks Cape Bahabera, or Bohabora, lying due N.E. dift. 3 Ls. This is the first Land of Asia, being the Coast of Natolia, which you make in the whole Voyage; 'tis a high Point, fmooth and flat on the top, and shows like an Hand at its first appearance, as you fail to the Dirdamilli; it bears S.E. by E. from you 4 to 5 Ls there is a good Road under the Point, and Ships coming from the northward do often fail thro' between the Island and the Main, and 'tis easy io to do with care, and provided they know the Coast, and have a Wind at N.N.E. or E.N E. 'tis a bold Shore, and all the way good anchoring, and you have 25 to 30 fa. within Gun thor of the Main.

W. by N. from this Point has the III and of St. Stratt, cr Stradi, diff. 141s. and N.W. diff. 12 Ls lies Stalimene, the antient Leeber: The first is a small low island, the last is large but lowello, except two Hills which make at Ser like two Islands: Between those Halls is the Haven, which is large

and good, and lies on the S. file of the Mand.

It is a tafe Hubbur in all Winds, except SE, and SSE, and there are good Shiftings in ir, even in elle those Whads should blow; but there is a great Viriety of Channels and Couries to go in an lour, fo that you must make use of a Pilot to go

in or to come out.

From Mark a to the Island of Tire 's is N.ly E. 5 Ls. and from People S. Majis N. or at melt N. by W. L. Is to lies fo directly in the fair Way to Conflaviologie, that it is perfectly indifferent on which fide of the Bland you go, to you may take it as the Wind and Weather directs, only obferve, that if you leave it on the Larboard fide, thun the Main, and freer close by the Mand; if on the Startoard, give the Ifland a Birth, and Leep a good Offing: The Reafons are, because the western. It Points of Tention are full, with a Back running out a great way to fear and, firetching S.E. forelledy, and N.W. wellerly: the refl is all good anchor ground, ellar of Rocks, and 20 Fr. Water within a quarter o. a Mile of the Shore. There are several Shoal and Sinds on the discoul, running out towards the Island; and as there see etc. s neaning out also from the Island, it is difficult an mag at my en that fide, tho by the few ho are well acquired, and by the help of the Lead, it is often done with latery.

From the N. Point of Ten des to the That I cell, and the Entrance into the Streig't of Confuncting to called the real fpont, the Course is N.E. by N. 3 or 4 Lo. The S. P. int of the Streight is and 1 C. by S. 2. the Streight is call d Cipe Jir. fari, but there is an about Point before you come to the Entrance. The Cost domC. St. Marys lies N. by E. 'Tis a clean Strand without my Creeks, and very little or no Shr als er Pliffs thrulling out from the Land. Upon the first Cape stands a House and three Virale mills; 'tis a plain Point, only that there are three litt's Hills e from it : It vousie bound it, vell P. E. Ch-

There is a Road without the favor among tome Illands, but the Ruling is not very early, the Depth being to great as

30 to 60 Fa. and the northerly and foutherly Winds biowing right in bring in a great Sea, to that Ships are apt to tay lathore.

There are abundance of fmall Islands lying about this Gulph, but no other Haven. From hence to the Island Schiata is 5 I.s. W.N.W. it is a finall Island in the Entrance into a very deep large Bay: This is part of what is call'd the Gulph of Volo. At the S. end of Schatta lie 5 or 6 other Hlands, and behind them the Entrance into the Bay, you may ride where you will, and go in or out between any or all of those Islands; there is every where Depth enough, and no Rocks under Water any where.

There is only one Ledge of Rocks that are dangerous; they lie between this Island and Schopfoli; there is but 5 or 6 Foot Water upon them, and fome Ships have been loft there: you may eafily know them by the Rippling and Breach of the Sea

upon them, tho it be calm Weather.

From that Island to the Gulph of Volo is 3 Ls. W. it goes in N. a little wefferly; the Gulph is 2 Ls. wide when you are in, and it runs in 6 to 3 Ls. in length. At the Bortom of the Gulph lies the City of V_{-}/D_{i} , where is a good Road, but no Haven: You have many good Roads, Islands and anchoring places in thi; Culph, and fome small Bays, too many to enumerate; nor are we supply d with Names for them all: 'Tis enough to fay, that 'tis every where a very commodious Gulph, and there are Pilots to guide you to the loading-places, on either fide, as your Bufinels fliall require

S.W. from this Culph the Coast stretches away to the W. end of Negrapout, and to the Pals of Action, which lies along between Aggiations and the Main: As this part above the Gulph is a good Coast for all the Purpotes of Trade, so is that also within the Island; but the off-fide of Negropont, that is, the N. Coast of the Island, is a foul rocky dangerous Coast. without either Haven or Road; and if you are taken here with a Wind off Sea, you must work it off if possible, or

run a-shore and be loft.

The W. end of Negropont is good, and you have opposite to it Achieve, Acladi, Zetonni, Stalidi, and several other small Cities and Coast Towns, where are Havens or good

Roads, and in all of them Pilots to cony yourn.

North of Chatta goes in the Gay of Salonichi, and the Coast of Macedonia and Thrace, which make together the Bottom of the Accompanies: There is a large River at Salomichi, the Menth of which is navigable for great Ships, and is much frequented; but the 2 are Pilots to ducct all Ships which come from the fouthwar: As to the Coasters, they are as it were at home, and need not their help.

We must now look back to in Course of the European Slaps, failing thro' the Arches, as I and hove, to the Coast craft, and the Codmelli.

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From Entrance Spout, th the Strei Point bet St. Mary Creeks, a the Land. mills; 'tis at fome d deavour t off from Point, yo

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From the N. Point of Ten des to the That I cell's and the Entrance into the Streight of Conflant in the cell'd the rhind front, the Course is N.E. by N. 3 or 4 Ls. The S. P. int of the Streight is call d Cipe Jin fari, but there is a counter Point before you came to the Entrance. The Could do make St. Marys has N. by E. Tis a clean Strand without any Creeks, and very little or no She also r Riss thrusting out from the Land. Upon the first Cape stands a Hause and three Windmills; it is a plain Point, only that there are three little Hills at some distance from it: If you are bound in, you must endeavour to go without a Sand, which runs about a surflux off from the Point into the Scar but being a-breast of the Point, you are past the Sand to the N.

There is another white Point beyond Care Javefari, before you enter the Streight; there is 10 Fa. within Musker flot of it, and 15 to 20 Fa. half a L. off; and in the Entrance of the Streight from 15 to 40 Fa. but floaler in the Passage between the Calles.

If you are bound for Conflantino, le, observe in passing the Streight that you keep near the Castle of the Dardanelli on the S.E. side; for by the N.W. goes always a forcible Stream outward, and chiefly in the Winter; which Current is sometimes to extraordinary, that with a good stiff Gale you can learce stem it; and yet you must not come too near the S.F. side neither, not closer to it than about a Musket-shot from the Shore; for the Shore is foul a good way out from the Land, and in some Places there are Rocks under Water which are very dangerous, and must be shunn'd; but the other side is very clean, so that in failing along, except that of the Current, you have no difficulty, but may sail close by it, and also to it and from it, as you please, without any danger.

The Passa c between the Lands is about 2 Ls. wide; from these Cassles inward the Course is N. and N. by F. 3 Is. towards a low Point which lies on the F. side, and has another Point reaching towards the W. Shore, on which shands a little House and a thick and high heap of Stones, which must be shunn'd, as well when you come to as when you fall from the Sandsher.

Streights.

Alto there stretches a Bank of Sand a good way from the Shore towards the W. side; and between the Castles and the aforesaid Point on the F. side, there are some soul Points which you must avoid: All the Ships that pass these Screights must both in failing up or down, come to an Ancher, and he 3 or 4

Days to be fearch'd. You must come to an Anchor near a green place which you will see upon the Land just before you. Those that come from the eastward, being past the Point of the Bank of Sand mention'd above, must lust up close by the Point which is on the E. Shore, and come to an Anchor under it; but you must be careful that you lie not too far from the Shore, and so miss your anchor-ground; for a Musket shot to the fouthward of the Bank it's 20 Fa. deep.

It happens sometimes that the Ships coming down the Streight from above, with a strong N. or N. easterly Wind, do miss the anchoring place; and then there goes so sorcible a Stream outward, that not gaining the Road soon enough, they are obliged to anchor in soft Ground, and so are driven from their Anchors between the Castles, the Ground not being hold-

ing enough, fo that their Anchors come home.

Over-against this Point to the W. side (or a little to the northward of the westermost Castle) lies the antient City Mayta, next which, on the Land, are many Wind-mills.

Natura and the Point it is about a L. wide: From this Point (or from the Rock off of the Castle) to Gallipoli, the Course is N.E. by E. and E.N.E. 7 or 8 Ls. To the westward, or behind 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 Arsenal.

To the castward of Gallipoli is also a great Bay, but the City stands on a Point, and the Land is even and low, so that (in a manner) it is lower than the Water. Between Gallipoli and Mayta you must always stand nearest the N. side, but not too near in dark and thick Weather; for at some Places there lie certain Shoals, upon which if you stand too near you may perhaps strike; yet by Sounding you may find them in the night, and may discern by day where they lie by the Colour of the Water.

On the Natolian fide the Land has some Bays, and you may perhaps be in danger of touching on some of the Points between them, as you come from Gallipoli, in dark or thick Weither, and as you come from above also; for there seems to be no Openings: Sail therefore towards the high Land which lies to the northward of Mayta on the Gallipoli side, and you will discover them in coming near to that Shore. You may ride under the Lee of those Points of Land in all northerly or westerly Winds. In the Passage between Gallifeliand Mayta it is, at divers places, about 2 Ls. wide.

Over-against Gallipoli, on the S. side, lies a Ledge of Rocks, which you must shun either in sailing in or out: This Ledge reaches far from the Shore; it's very steep, so that at one time you will have 30 Fa. and the next Cast 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 almost in all Winds; but you must fail to the westward of the Ledge of Rocks, for at the E. end it

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to the fouthou must fail to the E. end it you will fee another Hill on the high Landclofe to the Water-fide; 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-house, as is mention'd above.

Between Gallipoli and Marmora, that is, between the N. and S. main Land (for Marmora is an Island) the Streight is

5 Ls over.

Marmora is a high and short Clump of Land, being one great Rock of Marble; it is the highest Island lying in the Gulph coming from the westward; it appears in two Hills, having a little low Island to the northward, and with two or three other Islands to the southward: These also are low, and not great. Sailing from the Castles to Gallipoli, you may see Marmora all the way; and while you are to the westward and northward of Gallipoli, you may see this City over it: You may sail to the southward of Marmora between it and the low Island, as most do in the Winter, because the Winds then commonly blow at S. and S.E but in Summer and in good Weather, for the most part they blow from the northward, between Marmora and Rodesta.

Between Marmora and the Island to the southward of it, it's all clean Ground; nevertheless with those that have great Ships, and are not well acquainted, it's best to fail to the northward of Marmora. The Italians indeed commonly fail thro' to the southward, between Marmora and the Natolian Shore, where there is good riding in many places, and Shelter from

all Winds.

S.E. by E. from the E end of Marmora, about half way over, there lies a funken Rock, on which there is not above 8 or 10 Foot Water; which in failing to the fouthward of Marmo-

ra, you must take heed of.

Toint Rodesta, over-against Marmora, is a pretty high Point, higher than the other Land thereabouts: With a northerly Wind you must not come too near this Point, becaule, if you do, you may chance to lose a Mast, by the Wind coming down from the Point in Gusts and Flaws, as with those Winds it very often does.

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 stand

a great many Mills.

Those that are forced to turn between Gallipoli and Marmora, or from thence to Constantinople, must not stand over too near to the Natolian side; for on the N. Shore there goes the least Tide, but on the other it runs forcibly to the westward.

From the N fide of Marmora E. by N. 10 Ls, is another Point call'd Marda, but not reaching very far out; to the castward of that is good anchoring. A Mile farther to the castward of that Point is a great white Spot on the Land, by which it may be easily known: Next to this is a white Strand and shallow Water: A Gun-shot from the Shore there is but 5 Fa. but sailing from thence to the westward, it grows deeper,

weather, and as you come from above allo; for there feems to be no Openings: Sail therefore towards the high Land which lies to the northward of Mayta on the Gallipoli fide, and you will discover them in coming near to that Shore. You may ride under the Lee of those Points of Land in all northerly or westerly Winds. In the Passage between Gallifoli and Mayta it is, at divers places, about 2 Ls. wide.

Over-against Gallipoli, on the S. side, lies a Ledge of Rocks, which you must shun either in failing in or out: This Ledge reaches far from the Shore; it's very steep, so that at one time you will have 30 Fa. and the next Cast 10 Fa. and

then about Ship, or you will be upon them.

Between this Ledge of Rocks and the Main to the fouth-ward, you may ride almost in all Winds; but you must fail to the westward of the Ledge of Rocks, for at the E. end it

reaches out with a Tail to the Main.

Over-against Gallifoli, behind the aforesaid Ledge, lies a City call'd Camanar, close by the Water-side on low Land, so that it is hardly seen; but Gallipoli lies somewhat higher: Upon a certain Point to the eastward stands a large Light-house: Over-against that Light, and about a Gun shot from the Shore, lies a sunk Rock, on which heretofore many Ships have struck and been lost. But except that Rock only, it is all over the Gulph a very clear Coast.

From Gallipoli towards the Island Marmora, the Coast is E. by N. dist. 10 or 11 Ls; but with an E.N.E. Course you will fall about a L. to the northward of Marmora, and 2 Ls to the southward of the Point Rodesto. Marmora and the Point Rodesto lie opposite to each other, and 'tis about 3 Ls

broad between them.

From Gallipoli castwards a good way, it's very low and even Land, and shoal Water all along, and a Musket-shot from the Shore 'tis 4 Fa deep. On the end of that low Land, about 2 Ls. to the castward of Gallipoli, lies a round Hill, below which there stands many Trees, with a long white Tower; but you lose sight of it immediately. In saling eastward of this Hill is a Valley, wherein and about it stand many Trees; also a-breast from this Hill about a L. from the Shore, and nearest to seaward you have 14 or 15 Fa. all good Ground, but near the Land it's very shallow, therefore stand not too near the Shore thereabouts: This Shoal reaches eastward 20 Ls towards the Hill.

Eastward from this Hill on the Natolian side, lies a great white Rock not far from the Shore; and as Gallipoli stands upon a low, bare Point, and is not very easy to be known coming from the castward; this Rock is not easily seen, for then it lies as it were under the Land; but by the aforesaid round still you may know that 'tis about 2 Ls from thence: When you sail westward to Gallipoli it begins to be deeper, and

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Between this Point and the Natolian Shore it's about 9 Ls broad E. by S. And E.S.E. 3 or 4 Ls, is another Point call'd St. Stephano; both which make a fine Bay: This last is Clay, like Sand, of a reddish Colour, some sew Houses standing thereon: From thence reaches a Bank of Sand to feaward: About 2 Miles off you have not above 5 Fa. Water upon it.

This Point and the Island Marmora lies distant E.by N. and

W. by S. 11 or 12 Ls.

From this Point eastward the Coast reaches E. by N. northerly 1 L. till you come to the W. Point of the City of Constant inople, to which you must not come nearer than 9 Fa. and sail along in the fame depth, till you come near the Seraglio at the N E. Point; and then luff up towards Galata, where the Ships ufe to unload, and which is therefore call'd the Porte.

When you would fail thence, you must remove with your Ships to Toppena, that with a northerly Wind and the Stream you may fail from the City of Constantinople down on the

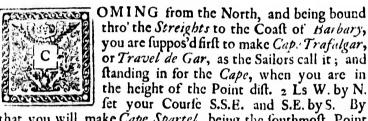
European fide.

Between the City of Constantinople and the Islands that lie S. from the City, it is about a L. and a half broad; but the Land of Natolia fouthward lies distant from the City 5 or 6 Ls.

The Streight of the Bosphorus, and the Coast of Thracia, begin just at the Point opposite to the City of Constantinople; 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 Constantinople that way, none of our Pilots have been able to take any Survey of the Coast on that side; by which we lose the Description of the Coast of Asia as far as Trapezond, and of Europe as high as the Streights of Ciffa and the City of Asoph.

Sailing Directions for the Coast of Afric Sea, commonly call'd the Barl

Directions for Sailing into the Mouth of the Streights on the Barbary side.



that you will make Cape Spartel, being the fouthmost Point

of the Opening into the Streights Mouth.

When you make the Cape dist. N.N.W. 2 Ls, steer away E. and E. by S. so you will come in the Fair Way into the Streights Mouth, and immediately make the W. Point of the Bay of Tangier: Keep your Offing, and keep on with the same

Course till you are past that Place.

You will know Tangier by the following Marks: On the W. Point of the Bay stands an old high built, but he demolish'd Castle; and beyond that above the Castle, upon the Hills which are very high, stand the Ruins of an old Watch-Tower: Also to the eastward of Tangier is another demolish'd Watch-Tower. Thus you will know Tangier at any distance, if in sight of Land.

Being pass'd *Tangier*, change your Course from E. by S. to E. by N. if you are bound only thro' the *Streights*; but if bound to the Coast, keep on E. by S. from *Tangier* to *Apes*-

bill, the Course is E.N.E.

If you would fail thro' only, if it be in the night, 'tis best to keep to the Barbary side, because there the Coast is clean, and clear of Shoals or Riss; but the other Coast (as was describ'd in its place) is soul and difficult.

N. B. At Tangier a S.W. by S. Moon makes full Sea.

In all other parts of the Entrance or Passage call'd the Streights Month, the Flood runs till the Moon is in the W. by S.

Also all the other Parts of the said Passage have the Flood out of the W. which runs on each side from Cape Spartel and from Cape Trafalgar along by the Shore, and much stronger than in the Middle; and this holds to Cape Cabrita on the S. side, and to Apes-hill on the Barbary side. And here respectively the Tide, as above, meets the Flood, which comes out of the Mediterranean from the N.E. about the Point of Gibraltar, and

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TELESCOUNTES ESTREMENTS

If of Africa in the Mediterranean I'd the Barbary Shore.

culties about the Tides and Currents in the Mediterranean Sea,

but that is not to our present purpose.

At Malabata there is a Ledge of Rocks stretching from the Shore directly off into the Sea, but they go but a little way, and are all above Water, and there is no less than 5 Fa. Water fair by them.

To anchor in Tangier Bay, bring the Castle, which is at the N.W. Corner, over the N. Wall of Tangier, and Cape Malabata, due N.E. and you are then in the best of the Road, and have 9 to 10 Fa. at high Water: You are tase in this Bay from an E. and S.E. Wind, as also a S. and S.W.

From Tangier the next Place is Centa, dist. about 7 Ls, the Course due E. there you have a good Road, tho no Haven, but a Bay; 'tis safe from a S.E. a S. a S.W. or a W. Wind.

From Ceuta you fee Tetuan as foon as you are about the Point, but it is no Port, for it lies a Mile up the Main, and upon a Hill: Go on then S. till you fee the E. end of the Town lie even with a round Hill that stands upon the high Land.

In the middle of *Tetuan* is a black old Tower, and behind the Town three little Hills; bring those Hills to bear with the black Tower, then come to an anchor, but let it be so far from the Shore that the first Hill may be seen to the S. of *Centa* towards *Cape Porcus*; then you will have good riding, clean Ground, and 16 Fa. Water, otherwise you will endanger losing your Anchors.

N.B. You must be very nice in anchoring here, for the Spot of Ground describ'd is not two Cables length in Circumference.

Cape Tetuan lies 2 or 3 Is T. floor has Town and about 9 to 10 Ls from Center You mult be carried not to mittake and spe for Cove 1 1962, which you may eafily do by keeping close on heard the Shore. There is a fine landy Bay, and good anchoring-ground, almost all the way between Ceuta and Cape Porcus.

Penon de Velez is the next Port of importance on this Coast;

it lies from Ceuta E.S.E. foutherly 24 Ls.

Having pass'd Velez from the W. you will see a rough Point grown with Trees; on the side of the Point lies Buttery in a fine Bay, the Points 2 Miles as under: The E. side of the Bay is the Place for Traffick, and the best to ride under in case of a Levant.

Seven Ls beyond the W. Point of Buttery Bay, is the Ray of Burema: Here is good anchoring, that is, the Ground is

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On the Top of the (Flood) Tide there comes a Race of a Current from the W. and spreads the whole Passage from Shore to Shore, but does 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 strong to the eastward; and when the Race of the Current above noted begins at a W. by S. Moon, at that Instant begins the Ebb at the W. side of the Points of Gibraltar and Cabrita to run to the eastward: So that, in short, you have here four or sive several Currents running all at the same time, some one way, some another.

1. On the Barbary fide the Ebb runs very narrow along

Shore, from Apes-hill to Alcassar.

2. At the same time, on the W. side the Point, it runs

about 3 Miles broad.

3. At Cape Malabata, which is the E. Point of the Bay of Tangier, it runs 2 Miles broad, and holds to on to the W. as far as Cape Spartel, and to runs muder Shore S.W. as far as Sallee.

4. To the E. of Cabrita and of Apes-hill, the Ebb is begun by the Race of a Current, as above, and runs in E.N.E. in the middle, and from Apes-hill to Centa along Shore all the first half Tide: and the remaining half Tide it runs from Cabrita E.S.E. into the Streights Month by the Point of Centa; and from Gibraltar Point the first half Ebb runs N.E. towards Cape Fangerola.

This Variety of the Currents and Setts of the Tides is more particularly described in the Charts, and is necessary for every Commander or Pilot of a Ship to know perfectly well in the passing these Streights. It is useful also to answer many Diffs-

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Cape Fernan lies 2 or 1 5 7 for 1 . Thomas and should be to Ls from Could I ad mult be careful not to mittage for Core times, which you may eafily do by keeping close on hard the Shore. There is a fine tandy Bay, and good anchoring-ground, almost ail the way between Centa and Cape

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Having pass'd Velez from the W. you will see a rough Point grown with Trees; on the fide of the Point lies Buttery in a fine Bay, the Points 2 Miles afunder: The E. fide of the Bay is the Place for Traffick, and the best to ride under in case of a Levant.

Seven Ls beyond the W. Point of Buttery Bay, is the Ray of Burema: Here is good anchoring, that is, the Ground is good, but no cover against any Winds; 'tis a wild Road, but there are feveral Trading Places about it.

E.N.E. from it dift. 13 Ls lies Cape de Tres Forcas, or Three Points; and here is the other Extreme: For as at Burenes there is good Ground but no Shelter, here is good Defence from the Wind, but no good Ground to come to an anchor in: But 11 Ls farther, S.S.E. from Cape Tres Forcas, there is a Haven and a Mole, but even this is not for great Ships: So that upon the whole, here is no good Harbour from the Streights Mouth hither.

From Cape Tres Forcas to Cape Hone the Course is E by S. 23 Ls: Between them on the W. fide of the Bay lies the Fortrels of Melilla; when the Spaniards possels I it, some Shipping used the Place, the Haven was kept up, the Moles repair'd, and the Heads made ferviceable; but now the Moors have it, 'tis all neglected: However, at best the Haven was not capable of receiving great Ships.

There is indeed good Riding without the Heads, but then 'tis without Shelter from any bu methorly Winds. There is a wide Bay here between the two Capes of Tres Forcas and La Hone, but there are no places of Note nor any Harbours: There is a small River comes into the Bay at Port-Nova, where is good anchoring, and where Ships come to load Salt; but the Port is a Bar, and admits no great Ships. F.N.E from Port Nova are three rocky Islands call'd Zafarmos, lying about a L. from the Shore, and about a L. from one another; you may anchor on the W. fide of them indifferently well shelter'd, but come nor too near, the Ground being faul all about them. There is a Town behind them on the Shore call'd Safarin; you may go in between the Islands and the Main and anchor before the Town. From hence to Cape Hope is about 11 Ls. N.E. and N.N E a foul Shore, and no good anchoring any where near the Land. From Cape Hone to Cape Fail o is 20 Ls. N.E. and N.F. by E. There is little of Note all the way between; between; the first is the little Bay of 'Delimach's, in which is a little Island of the fame Name, where you may anchor in case

of Necessity; but no Haven.

Also Cape Fegal:, or Fegal; lies midway between Cape Home and Cape Falcon, with a little Hand unmhabited, where is good Watering, and between which and the Shore is a good Road in cafe of a Levant. The Shore is clean, but no Harbour; and as there is no Safety, to there are no Dangers but what are to be feen.

Two 18 S.E. from Cape Felling you fee a Rock above Water, under a finall Point which has no Name; upon the Rock flands a Crofs; from this Rock the Shore trends along E. by S. and E.S.F. making a wide Bay; you may run along Shore close by the Rock. On the W. fide of the Bay lies a Caffle called analogyite i, which in the Mooreth Language fignifies the great Caffle; you may anchor under it in an excellent K al, in 9 to 11 Fa. well findred from any Wind.

About 1 L. from this Callle lies the City of Oran; it is a fmail Naven, but to open to the northerly Winds, that it afterds no Safety: great Ships chule much rather to ride under the Callle of Mangaga, ver. There is a Callle at Oran allo, just at the Entrance on the W. Point of the Haven; it flands aloft upon a rifing Ground; and the Hais beyond it make like a Saddle, to that its cashy known a great way off at Sea.

The next Point beyond Crie Falton is Cape Perrat, or Ferral, different Bay of Arrival his on the E fide of this Point, and reaches to Cape Pear There is good anchoring before the Town of Array, in the

1 from of the Bay.

From Cape de Levol to Cape Tines the Course is E.N.E. 26. Is. There is little of Note between, the Coust being empty of Ports the Country sandy and desolates but from Cape Tines the Circumstances of the Country alters, and of the Coast also; for E. of Cape Tines the Coast is full of good Roads, sate ancecomy places, and some Rivers, as also of large and populous Tines.

A firstle W. under the Cape lies the Town of Tives, or Tini, which have name to the Cape. Here is a good Road in - to the La admirably shift r'd from those terrible Winds call'd the Leville, all the Country being high like a Wall to the E. and N. Lasaward: But it a westerly Wind happens, you must trust to your Ground Tackle; the Ground is good, a hard holding Sand: observe the Saddle hill for your Mark, when that bears S.E. from you, drop your Anchor, for there is the best of the Road.

On the 1, fide of the Cape you have feveral good Roads, tho no Havens. From the Cape the Shore falls off S.F. to aporther Point, tho 'tis all call'd Cape Texes; and this is call'd the Lallward Point of the Cape: under it lies the little City of Aireal, or Ad, where there is a finall Bay and a good Road, it you are bound to the well ward, and are taken fhort with a NAV, or S.W. wind; but then here is no Shelter from the E. and N.E. but if you for sie a fevant Gale, put to Sea, and get all out the Cape into Years and I fore.

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but the faithless I mike me such cru IF siles and uncertain Friends, that sew Christian Nations care venture into their Harbours, but chuse to lie in the Road, and load or unload there.

Likew se in this Space lies the Gulph of B gr, or Boger, with the Cape of the same Name: there is good anchoring in this Gulph, and on the W. side of it also close under the Point; but here is not much business for Shipping, other than to take Shelter upon Occasion.

From Cape Burgar same to the Ifland Galicia is 45 Ls E.N.E. and E. by N. ziz, to Cape do Ferra or I in 0, the Course is L.

by N. and thence to Galitta E.N.E.

N. B. This Ifland of Galitta is a place noted only for its Situation, being a wild defolate Ifland, only that it has in the Fair Way of all the Navigation in thefe Seas: it bears from Cape Pullo in Sinding due S. dift. 30 Ls; from the Rock Torio S. by F. and S.S.E. 26 Ls. It is a very small Ifland, lying E. and W. about 1. Mile in length, in Lat. 37:30.

The Itland is foul and full of Rocks every way, except on the S. fide, where there is a good Road for a Levant, which in fhort is the only thing for which the Ifland is valued; to another Road you be recure in northerly and cafferly. Winds.

There are many Rocks at the Whend of the Illand, and at the E, end is a high Mountain r — up to a Peak, that platop, like a High crown'd-hat; and round only Point the Shore is all rocky and foul alfo.

S.W. from the westermost Point has a large Rock, and some small ones about it, all under Water, and therefore very dangerous; they have at least a L. from the Shore: if you would come to an Anchor in the Road under this Island, you must first make the E. Point, there you will see 3 Rocks above Water; leave them on your Starboard side, and just beyond them you will have 9 to 12 ha. If you would go on to the S. side, fail close by the E. Point within a Cable's length of the Shore; there also you may have 7 to 9 ha but in neither of these Places is any Sheher, tho you may anchor there for the present, and then taking your Opportunity, stand away W. for the main Read under the S. Point.

There are no Pilots to be had here; therefore the Direction for this Road, which is fo necessary to Navigation, is the more requisite.

On the S. fide of the Island where the Road Ico, are two Creeks; if you come from the eastward, and would anch r in this Road, pals the first Creek, and anchor tight against a grey Spot of Land lying near the Water's edge by the second Creek; there you have the best of the Road, and 10 to 12 Eaclose to the Shore; there you are perfectly secur'd from a Levant, and all Winds between the NE and NW, and tolerably well also from westerly Winds.

N. B. The Current usually sets along the Island to the cast-ward. N. B. If you are passing on the E. Point, where the high Pico stands, you have sometimes very untoward Gusts coming from the Monatures, that we sometimes

which gives name to the Cape. Here is a good Road in 7 to 6 ta admirably flicter'd from those terrible Winds call'd the Levistrial the Country being high like a Wall to the E. and 18, Eistward: But it a westerly Wind happens, you must trust to your Ground Tackle; the Ground is good, a hard holding Sand: Eblerve the Saddle hill for your Mark, when that bears S.E. from you, drop your Anchor, for there is the best of the Road.

On the F. fide of the Cape you have feveral good Roads, tho no Havens. From the Cape the Shore falls off S.F. to apother Point, tho 'tis all call'd Cape Tenes; and this is call'd the Eaftward Point of the Cape: under it lies the little City of Aireal, or Al al, where there is a finall Bay and a good Road, if you are bound to the wellward, and are taken fhort with a N.W. or S.W. wind; but then here is no Shelter from the E. and N.E. but if you forefee a Levant Gale, put to Sea, and get about the Cape into Tenes, as before.

From hence to Cape d' Albatel the Courfe is E. by N. about 12 Ls. There are feveral good Roads between, particularly at Minfalsel, or Low Coffe, where there is a finall day like a Flaven, and good Riding, fave that a N. Wind blows right in.

From Towns to Cape Coffine is 22 Ls, the Courfe E. by N and E.N.F. The Coall between albatch and Coffine is a fair amouth Strand, and (as before) neither Shelter or Danger; no Harbour and no want of it. Cape Coffine, or Covine, makes the westermost Foint of the Bay of Algier, as Cape Mattifin or Matter, is the most eastward Point; and all between is call a the Pay of Algier.

The E. fide of Cape Tenes, and the W. fide of Cape Matithe Cape very foul; for whether you come from the W. or
the Cape Very foul; for whether you must give the Capes a good
Bith: When you are past those Dangers you may go boldly
into the Bay, and anchor any where. On the E. fide of Tenes
beyond Teint Tifeador, or Fishers Nose, you may ride in 12
that Under Cape startism, about Gun-shot off you may ride in
8 to 10 fa. before the City or Port 1 † Mile from the Shore in
13 to 22 fa. and farther off due N. from the Town in 25 to
53 fa.

N.W. from Cape Mirissim, dist. out into the Sea 2 Miles, is a long Ledge of R. cksall under Water and very dangerous; and N.W. from the same Cape has another Ledge about the same dist from the Land. There are also 2 Islands lie off from the Cape about 4 to 5 Miles E.N.E. so that the Cape is surrounded with Dangers, and it is best to keep without them all, for the Islands are shall and rocky; they lie a Mile asunder.

From Cape Coloreto Cape Day (2007), without all those fluidler Points and Islands, the Counterless due E. 58 Ls

The City of All v hes in the W. part of the diff between: The rave a hind of maining Haven at 2000, in which they have heir Mon of War from a Levant; but if it blows hard at as, they have I meaning anticulty enough. The Mole is a very and a fact that he is a region, and a fact they are well fecured;

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Cape Mation the W. or Capes a good ay go boldly fide of *I cnes* may ride in 12 may ride in the Shore may may ride to the Shore may may ride in 25 to

Sea 2 Miles, y dangerous; ge about the off from the is furrounded a all, for the er.

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and then taking your Opportunity, fland away W. for the main Read under the S. Point.

There are no Pilots to be had here; therefore the Direction for this Road, which is fo necessary to Navigation, is the

more requifite.

On the S. fide of the Island where the Road Fes. are two Creeks; if you come from the east a ard, and would anch r in this Road, pass the first Creek, and anchor right against a grey Spot of Land lying near the Water's edge by the second Creek; there you have the best of the Road, and 10 to 12 Fa. close to the Shore; there you are perfectly secured from a Levant, and all Winds between the N.E. and N.W. and tolerably well also from westerly Winds.

N. B. The Current utially fets along the Island to the eastward. N. B. If you are passing on the E. Point, where the high Pico stands, you have sometimes very untoward Gusts coming from the Mountains, that are sometimes ready to early all by the Board, and will make the Sea rage extremely especially if the Wind blows hard from the N. or N.W. And then on a studden, being under the Lee of the Hill, you shall have it stark calm again, and not a Breath of Wind, and then Gusts again, and so very often one after another: 'Tis needful to watch a sainst those Squals, and not carry too much Sail till you are pass the Danger. N. B. Also it is observed, that the Winds vary at the same time, according as you are on this or that side of the Island: when it blows N. N. Exight off the E. Point, it shall blow W.S.W. off of the West Foint.

If you come from the wellward, and defire to put in for the Road of Galitta, you must run by the W. end between the main Island and the little Island which hes off of the end, leaving Galitta on the Larbeard fide; and having past the Point,

fleer away E. to the S. Road.

From the Road you may fee the Barbary Coast, and the Island of Tub area will bear S. by W. from you about 12 Ls.

If you come from the northward, from Sardinia or the Coast of Frace, and are bound to Talarca, you should first make this filed of Galita; and as you have fight of it, set your Course s. by W. for Talarci, a little westerly, because

the Current fees to the eastward, as it does at Galuta.

Tabarca is a little Illind in a Bay within Gunfliot of the main Land of a freeze off of Cape Bona, 'tis eafily known; the Coast to the westward reaches almost to Esta. Two Ls. W. of the Island hes Cape Rose: As you lie at an Anchor under the Island, the westermost Land you can see on the Bark ry Shore is Cape de Fero dist. 16 Ls. and Cape N gro lies to the NE. dist. 7 Ls. All the Coast this way is a fair Strand, and very good Roads.

On the N. fide of Taharea is a flrong Caffle to defend the Road, and several little Towers to guard the Corn Warehouses erected there: A little to the northward of those Warehouses runs a Ledge of dangerous Rocks, some under Water 3 Loat,

Sailing Directions for the Northern Coa

fome 10 to 12 Foot deep; they are discern'd by the Rippling of the Water on them, and by the Breach of the Sea in blow-

ing Weather, especially if the Winds are northerly.

The Road is to the eastward of those Rocks, and to the E. of the northermost of the Corn Houses there is good Riding almost close to the Shore. Suppose you come from the Seaward with a N.E. or N.W. Wind, run on towards the E. Point, and anchor 3 or 4 Ships length to the eastward of the Shoal of Rocks, where you will have 5 Fa. Water, and carry a good Head-tast ashore: but if you cannot conveniently make use of your own Boat, call on shore or fire a Gun, and a Pilot will come off to carry your Fast ashore for you, and direct you where to place it: Then you may heave in 2 or 3 Ships lengths farther by your Headfast, by which you will be better shelter'd from the Wind under the Lee of those Rocks, on which the

In riding here special care is to be taken that your Shore-fast be a good Cable; and as it is to be fasten'd to a Rock, it must be well ferv'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 should blow a Storm, and your Cable cut for want of Scrvice, you may lofe your Ship; the reason is, there is a large River comes into the Sea just behind the Island, which sometimes runs to fierce, especially with a N.W. Wind, that a Ship is hardly able to lie here.

You may upon these Occasions slip, 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 must slip again, and run away eastward under the little Castle, where you may ride in 8 to 9 Fa. but let fall two Anchors, and lie as close to the Castle as you can. These Directions are given the more at large, because this is a Place of great Busi-

ncis for Shipping, and requires it.

N. B. There are Pilots to be had to direct you in shifting your Roads in Cales of Extremity, who will be very helpful with their Shallops or Barco Longo's to get up your Anchors again, when you have been forc'd to flip, and go from one place to another.

There is a good Road for smaller Vessels, which do not draw above 9 to 10 Foot Water, on the W. fide of the Island. between a Bank that lies off from the Point and the Main: the Pilots will direct you there also; 'tis a good Shelter in W. and N.W. Winds, which are the worst Winds for this Coast that can blow.

Right off of Tabarca westward along the Barbary Coast are abundance of Rocks, but most of them above Water: You have all along that part of the Coast 15 to 18 Fa. almost close to the Shore; 'tis also stony uneven Ground, and very bad anchoring: but eastward toward Cape Negro 'tis the Reverse, being clear landy Ground, good Shoalings, and not above 6 to 10 Fa. except one Point only about 1 1 L. from the Island, which is foul but even; there keep in 6 to 8 Fa. and the Ground is good. uld not be to confiderable

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From Port far due S. you a deep round Carthaginian dy Bay, a fafe good hard Sa 12 Fa. to the appear.

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Here bein it the Coast Asian Coast the Nile. eattward of fome Ls to Joine places

Guardia, is more properly Cape Farina; and under the Cape about a L. lies the Porto Farina.

The Entrance into this Port is between two Points, ? of a Mile wide: if you would go into the Harbour, keep near the eastermost Point in 4 and a half Fa. the W. Point is Shoal, having a Sand stretching out a Cable's length from it. The Town of *Porto Farina* is right before you, N. from the Entrance into the Harbour, or N. by E. for you run N. in; and if you keep the Church, and the eastermost Head of the Mole in one, that is your Mark, and you will need no Pilot, but run in to the eastward of the Town, and anchor at the E. end in 4 to 5 Fa. there you are secure from all Winds, 'tis an excellent Harbour.

E. from Cape Farina is Gamarola, a low flat Island, scarce out of the Water, dist. from the Main 2 little miles.

From Port Farina to Cape Carthage, the Coast falling in far due S. your Course is S. by E. 6 Ls. W. of the Cape goes in a deep round Bay, formerly a Road and Harbour for great Fleets Carthaginian or Roman, now of small use; yet 'tis a fine sandy Bay, a safe Road, and able to receive a Royal Navy, having good hard Sand for Anchor-hold, and gradual Shoalings from 12 Fa. to the Wash of the Shore, and no Dangers but what appear.

Cape Carthage lies between this Bay and that of Tunis, making as it were the E. Point of one, and the W. Point of the other. On the S.E. fide of this Cape stands the Island and Castle Goletta, samous in History, defending as well as forming the Entrance into the Harbour or Port of Tunis. Cape Carthage and Cape Tortas make the Bay of Tunis, dist. from one another 7 L. W. and S.E. as the Castle of Goletta and the opposite Point, form the Port of Tunis. There is good Riding in any part of the Bay of Tunis, either on the W. side under Cape Carthage, or on the E. side under Cape Tortas, or before the Port under the Castle Goletta.

N.E. from Cape Tortas dift. 8 Ls is Cape Bong; and from thence the Coast trends along S. to Cape Cupia 8 Ls.

From Cape Cupia to Cape Sufa S.S.W. 22 Ls.

From Cape Susa to Comegra S.S.E. 5 Ls.

From Comegra to the City of Apricas Ls S.E. by S.

From Africa to the City of Affacus & Is S.E.

From thence to the Port and City of Tripoli S.E. half ca-

sterly 55 Ls.

N. B. From Tripoli eastward to Abenandria the Coast is not surveyed; nor do any of our Charts give an Account of the Coast or Courses, Depths or Soundings, there being very little Navigation that way, and consequently no Occasion for a Survey.

Here being no Survey of the Coast of Africk, we must call it the Coast of Egypt, and go away East to the Limits of the Asian Coast, viz. to the City of Damiata on the Mouth of the Nice. From Jassa W.S.W. 53 Ls; and 6 or 7 Ls to the castward of Damiata reaches a great Shoal from the Land, some Ls to Seaward, where there is not above 3 or 2, and at somewhere 1 Fa. Water.

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Right off of Tabarca westward along the Barbary Coast are abundance of Rocks, but most of them above Water: You have all along that part of the Coast 15 to 18 Fa. almost close to the Shore; 'tis also stony uneven Ground, and very bad anchoring: but eastward toward Cape Negro 'tis the Reverse, being clear fandy Ground, good Shoalings, and not above 6 to 10 Fa. except one Point only about 1½ L. from the Island, which is foul but even; there keep in 6 to 8 Fa. and the Ground is good.

N. B. This Island of Tabarca would not be so considerable for Shipping, but that it belongs to the Genoese, who have Feace with the Moors and Turks; whereas all the other Princes and States in the Mediterranean Sea, France excepted, have perpetual War with them: so that this Island is constantly throng'd with Ships from Spain and Leghorn; and tho it is not above half a L. in Circuit, there are 5 Forts on it, besides the great Castle; under the Protection of which the Ships ride in Sasety.

N.E. from this Island, upon the Main of Africa lies Cape Negro, dist. 7 Ls; 'tis a long Point or Promontory stretching out far into the Sea, and the Ground being slat within, you would take it for an Island as you come from the castward. There are several Creeks on the Coast before you come to the Cape, but of no note to Navigation, the Waters being often dry'd up by the Heats. East of the Cape is a small Rock 3 to 4 Fa. above Water, and sharp like a Spire Steeple; and when to the northward you see thro' it, by this Mark you know a sine standy Bay which lies beyond it, where you have a very good Road; and all along the Coast you have a clean fandy Shore to that you may fail near it, and anchor almost where you will.

This Coast trends away E.N.E. and afterwards E. by N. 8 Ls beyond Point Negro to Cape Marabut, or Mirabut: from thence it trends due E. with some Hills, and several small Rivers emptying into the Sea: and sarther E. is the Harbour formerly call'd Biferta, being the Haven or Port to the great City of Carthage. This Cape Marabut lies with the Island Galitta W.N.W. and E.S.E. dist. 15 Ls. and E. by S. from the Cape dist. Ls. lies Point Guardia.

S.W. from this Point of Guardia diff. 1. L. lies the Porto Farin, or Farina. There is diffinguished in our common Charts a Cape Guardia, and a Point Guardia: Cape Guardia, which is the only Point that ought to be so called, is to the westward. as above; and that which they call the Point

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From Cape Sufa to Comegra S.S.E. 5 Ls.

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From Africa to the City of Affacus 8 Ls S.E.

From thence to the Port and City of Tripoli S.E. half carfeely 55 Ls.

N. B. From Tripoli castward to Abenandria the Coast is not surveyed; nor do any of our Charts give an Account of the Coast or Courses, Depths or Soundings, there being very little Navigation that way, and consequently no Occasion for a Survey.

Here being no Survey of the Coast of Africk, we must call it the Coast of Egypt, and go away East to the Limits of the Asian Coast, viz. to the City of Damiata on the Mouth of the Nile. From Jassa W.S.W. 53 Ls; and 6 or 7 Ls to the eastward of Damiata reaches a great Shoal from the Land, some Ls to Seaward, where there is not above 3 or 2, and at some places 1 Fa. Water.

Damiata, formerly called *Pelusium*, has two high Towers, which are seen far off at Sea, and whereby it may be known. It lies open to the Sea at the eastermost Point of the castermost Arm of the famous River *Nile*, which causes very high Water

there at the Swelling of the faid River.

Before Damiata there is good Anchor Ground a great way off, but it is somewhat soft just at the Town, by reason of the Mud that is brought down by the Waters of the Nile into the Sea: but both to the castward and westward of Damiata, the Ground is hard.

From Damiata to Cape Brule the Course stretches W.N.W. northerly dist. 11 Ls. This Coast is very low Land, with abundance of Trees; but off at Sea it is good fandy Ground and safe riding, especially when the Freshes do not come so

much out of the Nile.

When you first get sight of this Coast, the Trees that stand here and there in Clusters seem to be an Island, for you see them a good while before you see the Land, because the latter is so low. About half way between Damiata and Cape Brule, but nearest the last, are 2 great Mountains, and right W. of Damiata 2 Hills, which seem to be 2 red stony Clists: These are good Marks whereby you may know the Coast, and the Port also.

Along all this Coast, and a great way out at Sea, its even Ground and shoal Water, and you may anchor in 6 or 7 Fa. near the Shore, without Danger, even just where you will.

From Cape Brule to Rosetti the Coast stretches W.S.W. 6 or 7 Ls. Cape Brule is high Land, but to the westward of it towards Rosetti, the Land is very low, almost even with the Water; and you are in 10 Fa. water before you can see the Land: Nay, when you are about 3 Ls. from the Shore, you will not see it, but may see the Vessels that ride in the Road before you can see the Land.

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Rosetti lies even to the Sea also, as Damiata does; 'tis situate on an outer Point of Land, not far from the River Nile, but not just upon its Banks; it has 4 or 5 high Towers or Turrets, and a Castle lying on that side next the Nile, which runs with a great Arm very near by it, and brings down black Water into the Sea. By all these Marks Rosetti is easily known.

Before the City of Rosetti there is a good Road, but in westerly Winds tis worse lying than at Damiata: S. of Rosetti is a great Bay call'd Moody, or Madi Bay, where there comes in also another great Stream from another Arm of the River Nile.

Before this Bay lies an Island, behind which is good Riding and good Ground; and if you are forced to remove from Rofetti by any Storm of Wind, you may run into the Bay of Madi behind this Island, and under the Shelter of it come to an Anchor in 6 or 7 Fa. Water.

Four Ls to the S. of Resetti lies Cape Becur; and between these two lies the aforesaid Island before the Bay of Madi, the Cape thrusting out between the two Arms of the River.

Between Cape Beeur and the Island are several Rocks and Shoals very dangerous, so that you cannot sail thro' with great Ships except you are very well acquainted; the Ground all the way is very soul. Some of the Rocks also lie above, and some under Water. The Turks sometimes sail with small Ships thro'; but to the northward of the Island is a broad and good Passage; so that besides the Difficulty, there is no need to run the Hazard.

Upon Cape Becur stands a Castle call'd Apokera, which when you first get fight of, it is like the Sail of a Ship, but it soon shews it self.

From Apokera, or Cape Becur, to Alexandria, the Course is S.W. by S. about 4 Ls, the Land high and plain. From Cape G. so in Candia it is S.E. by E. somewhat southerly 134 Ls; and from Cape de Gata in Cyprus to Alexandria it is S.W. by S. a little westerly 8 Ls.

With this Course you will come to a Point of Land in Egypt, which lies about 16 Ls to the westward of Alexandria: This Point is a little higher than the other Land, and appears in 2 long Hills, but not high; and coming about 7 Ls farther E. you will find 20, 15, 10, or 7 Fa. but then you are close to the Shore. There are but few Marks to know this Coast by, because it's all low Land, and uninhabited; fo that in 25 Ls running you fee neither Town nor House, except this Point. Four Ls to the westward of Alexandria lie 2 black Hills upon the Land, by which stands a Building called the Tower of Arabia. Four Ls castward of this Tower lies the Port of Alexandria; but in failing to it the Current of the Nile must be observ'd, which runs very hard, especially as the Winds may This Current fitting to the castward runs so strong, that fometimes you are in danger of over-shooting the Port; therefore you must fail S.W. by W. if with a N.W. Wind fail W.S W. lest, as above, you fall below the Town of Alexandria. To know Alexandria when you come from the westward, observe

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that it shews it felf in 2 high Mountains; the castermost is the greatest, and is like a Country House; the westermost is smallest. and appears at first like a Stack of Hay. Then you will see open the highest Lighthouse; but if you fall not right with the City, you shall know by these Marks whether you beto the eastward or westward of it: the Land to the westward is even, without any Trees at all, and reaches W.S.W. and W. by S. the Land to the eastward is all low landy Ground, and full of Trees, reaching from Alexandria to Apokera, or Cape Becur, N.W. by N. 4 Ls. You may easily discern it by the Ground; for near to Alexandria and the Coast to the westward, it is very deep close to the Land, but to the eastward of Alexandria you will have good Anchor Ground and an even Shore, till you come past Damiata, the further E. the smoother Water; and when you are out of fight of Land, it is not above 14 or 15 Fa. deep, and at fome places not fo much; you may fail as close to the Shore as you will at 6 or 7 Fa. and all the Shore even low Land full of

The Haven of Alexandria is a great large Bay, not very wide at the Entrance: On the Points of the Haven fland two Castles, one on the E. side, the other on the W. which is the biggest; coming near which you must fire a Gun, to give Notice that you intend to anchor there, and after to enter the Port.

Duc E. from the W. Castle lies a round black Rock above Water; between which Rock and the aforesaid Castle 'tis soul Ground, so that you cannot sail between them; but E. of the black Rock and close to it, you may fail in.

From the eastermost Castle stretches out a Ledge of Rocks lying under Water, and running towards the said black Rock; and between them it is not very wide, but the deepest is 6 Fa. without it is 12, 10, and 8 Fa. but within from 8 it shoals to 4 or 3 Fa.

Before the City lies a Ledge of Rocks, the east end above, and the west end under Water; but to the southward of it is good Riding. There lies also within the Haven a Rock about 4 Foot under Water, behind which is the best Road in 3 Fa and a half: but all over in this Haven the Ground is sharp, that you must serve your Cables well, if you intend they shall not cut: you must fail to the eastward of this blind Rock, and by those

other Rocks. There are 4 Gaps like Doors in the Wall of the City, you must fail towards them, and then keep the greatest Tower in the City against the aforesaid 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 westermost Castle the Turks commonly lie, but the biggest Ships for the most part he northerly, just within the Haven in very foul Ground.

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 Haven, but not convenient for great Ships; it ferves only for *Turkifb* Galleys.

2 long bals, but not high; and coming about 7 Ls farther E. you will find 20, 15, 10, or 7 Fa. but then you are close to the Shore. There are but few Marks to know this Coast by, because it's all low Land, and uninhabited; so that in 25 Ls running you fee neither Town nor House, except this Point. Four Ls to the westward of Alexandria lie 2 black Hills upon the Land, by which stands a Building called the Tower of Arabia. Four Ls eastward of this Tower lies the Port of Alexandria; but in failing to it the Current of the Nile must be observ'd, which runs very hard, especially as the Winds may This Current fitting to the eastward runs so strong, that fometimes you are in danger of over-shooting the Port; therefore you must sail S.W. by W. if with a N.W. Wind sail W.S.W. lest, as above, you fall below the Town of Alexandria. To know Alexandria when you come from the westward, observe

Sailing Directions for the Western Cape Spartel Southward, to the Cape De Ve called Serraloon, exclusive.



T has been observ'd, that the Straits Mouth is form'd by Cape Trafalgar on the Spanish side, and Cape Spartel on the Barbary side; and that this Passage separates the two several Quarters of the World, Europe and Africa. The Breadth of the

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Straits in this Place is measured at something less than 7 Ls.

Cape Spartel is the utmost Angle of the Land of Africa N.W. as Cape Trafalgar is of Europe S.W. It is a long extended Promontory of Land, shooting out far into the Sea, and may be feen off at Sea near 10 Ls in clear Weather, tho the

Land it lelf is not very high.

At the very Extremity of the Cape there lies a Rock, that breaking off the Violence of the Sea, which (the great Atlantick Ocean beating upon it) would otherwise be very raging. leaves under its Lee to the S. of the Point, a very fafe Road with good Anchoring, where you may ride in 12 to 13 Faclean fandy Ground, and well shelter'd from northerly and easterly Winds: But it must be added, that you must lie ready to put to Sea, if the Wind veers to the West, and especially to the fouthward of the W. otherwise you may be embay'd, and on a Lee Shore too: However, if you are nimble in taking the first Change of the Weather, you may with Ease 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 see a Hummock on a low Ground, near the Strand, which looks like the Ruins t 7 Ls farther E. 1 are close to the his Coast by, behat in 25 Ls runkeept this Point. black Hills upon the Tower of Alexhe Nile must be the Winds may not forthe fail W.S. W. Alexandria. To yestward, observe

a half: but all over in this Haven the Ground is sharp, that you must serve your Cables well, if you intend they shall not cut: you must sail to the eastward of this blind Rock, and by those other Rocks. There are 4 Gaps like Doors in the Wall of the City, you must sail towards them, and then keep the greatest Tower in the City against the aforesaid Gaps of the Wall of the City, and you need not fear the blind Rocks.

Within the Haven on the E. side it's soul Ground: On the inside of the westermost Castle the Turks commonly lie, but the biggest Ships for the most part he northerly, just within the

Haven in very foul Ground.

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 Haven, but not convenient for great Ships; it ferves only for *Turkifb* Galleys.

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he Western Coasts of AFRICA, from the Cape De Verde and the Port of Sierra Leon, vulgarly

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fee a Hummock ks like the Ruins of an old Castle; there you may anchor in very good Ground, a clean Shore, and shelter'd as before.

From hence the Coast thrusts out a little to the W. and the Course to Arzilla is S. by W. 10 Ls. Here is a Haven and a River, but 'tis a barr'd Port: There are also several 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 several places, and anchor behind them, as also between them and the Shore; the N. Channel is the best and deepest Water, but neither of them deep enough for great Ships; there being but about 2 Fa. and a half at high Water.

The Coast hither is low and flat, with a clear sandy Shore; but the Country within shews very hilly and mountainous: so you must be cautious not to mistake the Hills for the first of the Land; if you should in dark Weather, or in the Night,

you may be ashore before you are aware.

From Arzilla the Coast still trends away a little westerly, and your Course is S. by W. to Larache 8 Ls. There are some Rocks on the Shore, otherwise the Coast is all clear, and good Anchoring in several places, even in the open Sea. The Shore is better as you go on southward, than it is more northerly; also the Land lies highest to the Southward. Larache is a strong Sea-Port, with a great Castle; it stands on the River Lecus, on the S. Bank of the River; the Channel in, is crooked and uncertain: and since the Moors have been Masters of it, the

Marks

Sailing Directions for the Western Coa

Marks for the Entrance have not been kept up, so that no Stranger can go in secure, nor are their Pilots much to be depended upon. But at best there is no Depth of Water for any Ships of Burden, so the Haven is not of much importance; but Ships ride pretty well in the Road before the Mouth of the River.

You may know the Entrance into the Port, by the N. Point having some Houses upon it; 'tis a low slat Point, and the Houses, which are but sew, stand close together. From the N. Point runs a Quick Sand slanting S.S.W. into the Sea, which makes a Bar also to the Entrance, and there is not above 3 Fa. upon it at the highest Springs; so 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 safe Coast to ride in an open Road; for upon a westerly Wind you have a terrible Sea comes in.

The Sea also sets right upon the Shore all along this Coast, so that in sailing by it you must be careful to keep a good Offing; otherwise even in a Calm you may be in danger of going

alhore, by the mere Course of the Water.

From L'Arache the next Port is old Mamora, dist. 6 Ls. the Course continues still S. by W. Here is a good Haven for Ships of indifferent Burden; the Coast is still low and sandy, but not so clean as before, and which is worse, 'tis without any Marks to guide you in, or to know it by: There are some Towns on the Shore, but no Churches or Towers, or Steeples to guide the Mariner in his Course.

From Old Mamora to New Mamora it is 8 Ls, the Course much the same as before, one Point more westerly; for you go S. by W. for some part, and then the Land bearing out a little westerly, you must go away S.S.W. The N. Side of the Haven looks like a Cape or Point, and the City seems as if it stood in an Island off in the Sea. Here 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 little mile of the Mouth of the Haven; but then you have good gradual Shoalings to the Shore, for you come to 15 and 10 Fa and have 5 Fa. within a Stone's Cast of the Shore: But for the Reasons above, it is not prudent to let your Ship lie too near the Shore.

Off of the Harbour is a high broad Bank of Sand, which is not easily seen at a distance, tho it lies dry, because the Coast is in general low next the Water: As you sail by it to the south-

ward, you will perceive it plainly.

The Port is not casily seen as you go by, for the Opening of the Channel lies to the southward easterly, and the North Point or Bank of the River lies slat and low: But keep on, and as you come nearer the Shore, you will perceive a Mark set up to guide towards the Entrance of the Haven; it is a high Pole or Mast standing on the high Ground within the Cassle of Mamora, and looking towards the S. If the Weather be clear, you will also see the high Tower of Sallee. There is a Bar at the Mouth of the River, where there is at a Spring-Tide 16 to 17 Foot, but the Depth alters often by the working of the

Tower, the River, and is dry at low V Water, but a 3 Fa. There past well eno

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In coming must bring the the Castle over S.E. then you is to 30 Fa. Rocks and St for the Moors.

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be Western Coasts of Africa.

Tower, the Castle stands upon a rising Ground close by the River, and is wall'd round; the Haven is large, but is almost dry at low Water, having not above a Foot or Foot and half Water, but at high Water 13 to 14 Foot, and at Spring-Tides 3 Fa. There is a Bar before it, which at high Water may be past well enough; but at low Water it stops all Passage.

The Channel shifts often, occasioned by Storms or high Winds off Sea, and Freshes from the Land; sometimes the Stream runs by one of the Points, sometimes by the other,

and fometimes in the middle.

In coming to an Anchor in the Road before the Town, you must bring the high thick Tower which stands on the Point of the Castle 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 please, in 16 to 30 Fa. 'tis all clean black Sand, tho the Shore is all full of Rocks and Stones. When you come to an Anchor, fire a Shot for the Moors to come off to you; they understand the Signal.

Fedale is an Island upon the Coast; the opposite Land between that and Salke is rugged and uneven. The Shore lies S.W. about 9 Ls; the Strand is black, with Rocks scatter'd here and there; and those Rocks are likewise black, and often taken for the Island it self: The only Mark to know Fedale by, is a Wood to the northward, dist about 1 L it lies below on the Land, boks like a Barn, and in failing by you will see the Land beyond over the Wood. To the northward of Fedale 4 Ls, is a little round Hummock, which when you are a little off Shore is seen above the rest of the Land; but it you are nigh, 'tis hid by the double Land.

From Sallee to this Island of Feddle, the Land is all high within and double; and the Coast being so very bare and without mark'd Places, special Notice should therefore be taken of such small Marks as there are, such as the Black Rocks,

Hummocks, &c.

Between the Wood and the Island is a little Moorish Town, which stands also in a Wood; you may see part of the Walls as you sail near the Shore; the Town is call'd Monsos.

To the fouthward of Fedale the Land begins to appear higher; and where the high and low meet is a Cliff, by which the Illand of Fedale is eafily known: for when the Cliff is S.S.E. from you, the Island is so too. To go into Fedale, you must run right with the Wood, till you come within less than a L. of the Shore, and then along by it; so you will run between the Illand and the Main, and cannot miss 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 lie in: The best Riding is, when the Point of the Island bears N.N.W. and N. by W. from you, and the Wood E.N.E. and Monfofs a Hundipike's length open to the northward of the Wood. Here you will ride early, having a Cable fast on the Island; but when the Wind is any thing westerly, the Sea comes rolling in to hard round the Point of the Island, that 'tis safer lying in the open Sea than any where within the Island: But you may also run into 12 Fa. and anchor there, with the N. Point of the Island lying W. by S. from you; 'tis fafer lying.

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ward, you will perceive it plainly.

The Port is not easily seen as you go by, for the Opening of the Channel lies to the southward easterly, and the North Point or Bank of the River lies slat and low: But keep on, and as you come nearer the Shore, you will perceive a Mark set up to guide towards the Entrance of the Haven; it is a high Pole or Mast standing on the high Ground within the Castle of Mamora, and looking towards the S. If the Weather be clear, you will also see the high Tower of Salkee. There is a Bar at the Mouth of the River, where there is at a Spring-Tide 16 to 17 Foot, but the Depth alters often by the working of the Sea; also the Sand shifts, for in the Spring commonly the Entrance lies E.S.E. or thereabouts, and in the latter end of Summer more easterly.

In the Summer the Wind generally blows here from N. by E. to N.E. along the Coast, so that the Current runs southward: In the Winter the Shore is boisterous, the Wind generally S.W. and S.W. off Sea; but as soon as it begins to come more to the S.or S E. the Shore is safe and pleasant; however you should be careful to keep a good Offing in these Seas, for the Winds soon shift from the S.E. to the S.W. and W.S.W. and these winds commonly bring soul 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 you have 18 to 20 Fa. clean fandy Ground: From thence to Sallee the Coast goes away S.W. by S. and S.S.W. low Ground, a plain and even Coast all the first part of the way, with double Land, and a fandy kind of Strand; but about midway between Mamora and Sallee it rises, and from thence southward you have many black rugged steep Rocks with little Hills interspersed; so that when you are at some distance from the Shore, 'tis not easily discern'd that the Land is double.

If the Weather is clear, you will eafily discern the great Tower of Sallee as soon as you are a L. from Mamora; and by that Token, when you are failing by the Coast, you know you are past Mamora. The Shore continues thus rocky and sleep, till you are past Fedale, and some time afterwards; only that between that and Sallee you will perceive now and then some white sandy Banks among the Rocks, but to the northward of Sallee nothing but perfect Rocks, and a dangerous Shore; therefore keep out to Sea.

N. B. From Cape Spartel to the River of Sallee the Course

is all S. by W. 40 Ls.

The Town of Sallee lies on the N. fide of the River upon a low landy Point, with a little Tower in the Town; there is a Calle on the high rocky Point on the other fide, with a small

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To the fouthward of Fedale the Land begins to appear higher; and where the high and low meet is a Cliff, by which the Island of Fedale is easily known: for when the Cliff is S.S.E. from you, the Island is so too. To go into Fedale, you must run right with the Wood, till you come within less than a L. of the Shore, and then along by it; so you will run between the Mand and the Main, and cannot mils the former; you may anchor in the Bite between the Strand and the N. Point of the Island in 6 to 8 Fa. but 'tis a bad place to lie in: The best Riding is, when the Point of the Island bears N.N.W. and N. by W. from you, and the Wood E.N.E. and Monfoss a Handspike's length open to the northward of the Wood. Here you will ride eaty, having a Cable fast on the Island; but when the Wind is any thing westerly, the Sea comes rolling in so hard round the Point of the Island, that itis fafer lying in the open Sea than any where within the Island: But you may also run into 12 Fa. and anchor there, with the N. Point of the Island lying W. by S. from you; 'tis fafer lying.

From the faid N. Point there is a Riff of Rocks, which shoot out about Musket-shot into the Sea, but they are most of them very high above Water: The Island it felf is very flat, and the Bay is a fair landy Strand, fo that you may ballast from the Shore; but the Natives are very treacherous, fo be upon your Guard. To the northward of this Island, over against the Wood, and so all along to Sallee, 'tis all shoal Water till about 2 Ls from the Shore, there you have 23 to 25 Fa. clean fandy Ground. Over against the Island the Ground is foul, but the

Depth the same.

If you would trade at Fedale, you must fetch the Moors on board, for they have no Boats, to you must anchor as far in as you can; when you are in, you'll fee a high Hummock upon the N. Point of the Island, it looks like a ruin'd Castle, but is only a Cluster of Rocks. The Tide slows right up, and down here 7 to 8 Fa. and no where upon the whole Coast befides above 2 to 3 Fa. the reason is not very easy to know.

Three Ls from Fedale S.W. by S. or S.W. and close upon the Strand, lie the Ruins of an old Town call'd Anafe; it is stretch'd along upon the Shore, and has several Towers, one of them almost as thick and high as that of Sallee, but is not feen far off: The Wood to the northward of Fedale may also

be seen thither.

Two Ls to the westward of Anafe is a steep Point, with red Cliffs, which look like Houses; you will see the like in teveral places on this Coast. From Anofe S.W. by W. westerly lies Azamor dist. 18 Ls, and between them another decay'd

place call'd Liones.

On the E. fide of Azamor there runs out a sharp Point far into the Sea; and as you come from the northward along Shore, you fee the Town flanding high behind it upon the Strand; fo that it is feen over the Point. The Shore is flat all about, not above 8 to 10 Fa. to a L and half from the Shore: the Ground is foul and rocky. To that there is no good anchoring.

A little past the Town westward you will see the River, and some Towers near the Mouth of it: on the low Grounds to the westward of this River lies the Town of Massagam, or Mazagan, dist. Ls, on a white Strand, and close by the Shore; Itis inhabited by Spaniards and Portuguese, but the Moors are Masters of the Coast: it has no Tower of Note, and at a distance looks only like white Spots upon the Land: when you are over against it, you will see the high Tower of Two to the southward, Itis an old ruin'd Tower much like that of Anasc. Mazagan lies in Lat. 32.56.

A little to the westward of Massagam, and at the Point of the Bay, a great Leege of Rocks shoot out into the Sea near a L. at low Water they are to be seen, but at high Water they

are funk, and therefore dangerous.

Tho this is a large Bay, there are but few places where the Ground is clear; to that if you are not well acquainted with the Piace, you will do well to take a Pilot. The best Road to lie in, is where the E. Point of the Bay lies E. and the W. Point N.W. from you. N. B. Here are Portuguese Pilots to be had.

About a L. to the westward of Tyro lies a very sleep Point, as you come along Shore from the eastward; you see no Land without this Point till you come very nigh it: But when you begin to bring it upon your Broadside, then you will see come out to the westward of it a great square Cliss very remarkable, having white and red Spots appearing at a distance, as if it were a Wall: this is the samous Cape Blanco.

About 3 Ls to the westward of this Cape, upon a high Land, stands a little Tower with a Valley near it, 'tis call'd Cafa Caraghero; and about 4 Ls faither W. upon the same high Land stands a House call'd Emendra; but you cannot see it, unless you are near the Shore. From Cape Blanco to Cape Cantin,

the Shore lies W.S.W. about 9 Ls.

Cape Cantin is a plain even Point; when you are to the northward of it, it appears flat toward the W. In going off to feaward there stands a small Tower upon it; but sometimes itis hardly discernible. If you come from the northward, and are bound to Safa, your Course is S. and S. by E. off from Cape Vincent; then you will fall with the Land 4 or 5 Ls to the castward of Cape Cantin: But if you keep a more westerly Course, you must run on till you are in Lat. 32. 30. then Cape Centin lies due E. from yon. Tis better to fall a little to the E. than to the W. of the Cape, because the Winds are generally northerly at that Place. In failing thus eastward of the Cape, the Coast lies S.W. by W. and S.W. plain even Land all along.

The Town of Tyro stands to the eastward of the Cape about 15 Ls, having a white Tower by the Sea-side: And farther to the westward, between Cafa Cavaglero and Cape Cantin, is a little Bay, having many large black Rocks scatter'd about upon the Strand, looking at a distance like Wrecks of Ships. From the Bay to the Cape 'tis a fine even sandy Shor c.

In failing round the Cape, you must carefully avoid a Ledge of Rocks which shoot out from it far into the Sea; to avoid the leave a good Officer of waithly in an short Western

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of the Island: Those of them which are nearest the Island, are always above Water, the others not, so take good heed. If you come from the northward, and would go in behind the Island, you must run between those Rocks and the Island close by them, leaving them on your Larboard-side, where you will have 5 Fa. On that side of them are other Rocks to be seen at low Water only; when you come to the outer End of them, you may lust up by them towards the Main, and have 3 Fa. Water good Ground, but 'tis but a very indifferent place to anchor in, if it comes to blow, because of the violent Breach of the Sea upon those Rocks; but farther on the Starboard-side, under the Island, there is good lying at 2 ‡ Fa. Water.

N. P. The Island of Mogodora lies in Lat. 31. 18.

From the S. end of the Island lies a little Riff towards the main Land; and to the fouthward of that, another Bank runs a League and half into the Sea. In going out at the S. end you must run along by the Shore of the Main, till you are past that Riff; then keep along by the Bank, and you will soon be in deep Water, and may fail where you will, having from 4 to 10 Fa. and more.

Cape Geer lies S.S.W. from the Point of Saffa about 38 Ls, and 25 to 26 from Mogodor: The Coast between is a fine fandy even Strand, the Land double, and in some places very high. About 8 or 9 Ls to the northward of that Cape lies Cape Taffelano, under which you may run for E. and N.E. Winds, and have good Ground and sufficient Shelter.

Setts of the Tides.

A S.S.W. and a S.W. by S. Moon makes full Sea on all thefe Coafts.

Cour fes and Distances.

From Cape Spartel to Cape Cantin the Course is S.W. fourtherly 85 Ls.

From Cape Cantin to the fouthward Cape call'd Cape St. Vincent, on the Coast of Portugal, the Course is due N. 90 Ls. From Cape Cantin to Teneriste in the Canaries, the Course

is S.W. by W. 148 Ls.

From Cape Cantin to Cape Geer, the Course S.S.W. 50 Ls. From Cape Spartel to the Maderas, the Course is W. by S. and W.S.W. 200 Ls.

Cape Spartelis in Lat. 35. 52. Cape Cantin in 32. 40.

Cape Geer is a remarkable Point of Land, appearing from the northward lower than the main Land, and to the fouthward it lies flat with the Sea, and yet it is feen 3 or 4 Ls off. There is a high Hummock about 4 Ls to the northward of it within the Land, which is feen much farther. To the northward of the Cape the Land is high, but you fee no Land to the fouthward of it, no not tho you are near the Cape. There is a great Riff which runs out from the N fide of the Cape a great way into the Sea, fo that you cannot approach the Cape, it you come from the northward you must fland of

are bound to Saffa, your Course is S. and S. by E. off from Cape Vincent; then you will fall with the Land 4 or 5 Ls to the castward of Cape Cantin: But if you keep a more westerly Course, you must run on till you are in Lat. 32. 30. then Cape Cantin lies due E. from you. 'Tis better to fall a little to the E. than to the W. of the Cape, because the Winds are generally northerly at that Place. In sailing thus eastward of the Cape, the Coast lies S.W. by W. and S.W. plain even Land all along.

The Town of Tyro stands to the castward of the Cape about 10 Ls, having a white Tower by the Sea-side: And farther to the westward, between Cafa Cavaglero and Cape Cantin, is a little Bay, having many large black Rocks scatter'd about upon the Strand, looking at a distance like Wrecks of Ships. From the Bay to the Cape 'tis a fine even fandy Shor c.

In failing round the Cape, you must carefully avoid a Ledge of Rocks which shoot out from it far into the Sea; to avoid which keep a good Offing, especially in westerly Winds.

From Cape Cantin to the N. Point of Saffa the Coast lies S. by W. about 6 Ls: Between them the Land is steep and

rocky, tho the Inland is even and plain.

About a L. to the fouthward of the Cape lies a Shoal by the Shore, call'd the Golden Bank. To the northward of the Bay of Saffa the Land is high, double and uneven; but to the fouthward it is plain and even: So the Difference is a Direction, when at a distance, whether you have over-shot the Town or not.

If you would anchor in the Road of Saffa, you must bring the N. Point, which the low Tower stands upon, N. a little westerly 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 northerly; and then the northermost of the two N. Points will be about a Ship's length open without the fouthermost: Run then to the fouthward, till the high square Tower, which stands below at the landing Place even with the Town Wall, comes right over a Tower which is fast to the Wall; and then come to an anchor, or elfe stay till you have the high Cattle of Saffa E. by S. and E.S.E. from you; there you will have 16 to 18 Fa. fine landy Ground. Or you may run into the Bay till the N. Point bears N.W. and N.W. by N. from N.B. These are all Sumyou, there you have 15 to 16 Fa. mer Roads, but in Winter you must keep farther off in 28 to 35 Fa. where you have coarte fandy Ground.

You may run boldly into the Road of Saffa by night or day, keeping the Castle E. by N. and E.N.E. There is no manner

of danger, unless you will run bump a-shore.

The S. Point of the Bay lies about 2 Ls from Saffa very low, and about 2 Ls more fouthward lies another Point, but steep and rocky. Here comes in the River Teneiff, which comes from Morocco.

Thirteen or 14 Ls S.S.W. from the Point of Saffa lies an Island call'd Mogodor, or Mogodora; and there shoots out a great Ledge of Rocks from the Main opposite to the NE and

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waterward Cape Carra Cape St. Vincent, on the Coast of Portugal, the Course is due N. 90 Ls. From Cape Cantin to Teneriffe in the Canaries, the Courfe is S.W. by W. 1.48 Ls.

From Cape Cantin to Cape Geer, the Course S.S.W. 50 Ls. From Cape Spartel to the Maderas, the Course is W.by S. and W.S.W. 200 Ls.

Cape Spartel is in Lat. 35. 52. Cape Cantin in 32. 40.

Cape Geer is a remarkable Point of Land, appearing from the northward lower than the main Land, and to the fouthward it lies flat with the Sea, and yet it is feen 3 or 4 Ls off. There is a high Hummock about 4 Ls to the northward of it within the Land, which is feen much farther. To the northward of the Cape the Land is high, but you fee no Land to the fouthward of it, no not tho you are near the Cape. is a great Riff which runs out from the N fide of the Cape a great way into the Sea, so that you cannot approach the Cape; if you come from the northward, you must stand off to Sea, and go about it.

Santa Cruze lies S.E. by E. and E.S.E. from the Cape 7 or 8 Ls: Five or 6 Miles to the northward of it is the Moor's Captle, upon a very high Land; and from that Castle runs a Range of Rocks, about Gun-shot in length into the Sea; the rest of the Coast is clear.

If you would anchor here, you must run into the Bay till the Moors Cafile bears N. from you, and the Christians Packhouses or Ware-houses N.E. then you are to the southward of the Range of Rocks, and have 7 to 8 Fa. The best Road is when Cape Geer bears N.W. by W. from you. In Summer time you may come so near the Shore here as to 6 or 7 Fa. but in Winter, keep your Distance. In failing from the Cape to this Road, you must be sure to run along by the Land of the Cape till you come before the Callle, because the northerly Winds almost blow Trade here; and if you keep too far from the Shore, you may be oblig'd to fetch it up again from the N.E. N. B. If you come to this and N.N E. to recover the Shore. Road by night, you mult come no nearer than 12 to 14 Fa. at your utmost peril.

You must be very careful also in your anchoring here, and effecially to have all your Anchors ready; your finall Bower must be laid before the Land-Wind, and your other Anchors to the feaward, and your Sheet-Anchor brought out to the S.W. against a Storm, which frequently happens here, and is torefeen a good while by the fwelling and rifing of the Sea: Alfo keep your Fore-fail to the Yard, that you may be ready to put to Sea if you should be forced from your Anchors.

About 18 to 19 Ls from Cape Geer on the Coast S. and S. by W. lies Cape Gilon; and S.S.W. about 10 Ls from Cape Gilon, is Cape Non: There comes in the River Dovodus, in the Mouth of which is a very good Road. From hence S.W. by S. 18 Ls lies Amfelli, and thence S. the Bay of Albach and Cape Chabi 17 Ls; from hence the Coast to Cape Bajador is W.S.W. near 50 Ls. All the Land on this Coast appears defo-

Sailing Directions for the Coasts of the

late and barren; no body goes on Shore, but makes the best of their way forward.

N. B. Cape Geer lies in Lat. 30. 10. Cape Non in 28. 36. Cape Badajor in 26. 17. and from Cape Geer to Cape Ba-

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Sailing Directions for the Coasts of the

HE Island of Lancerotta is one of the Canaries; it lies from Cape St. Vincent in Spain S.W. and SS.W. 180 Ls. It has feveral Havens and Roads, but especially one Haven is Land-lock'd for all Winds; where you come in from the northward, and ride in 10 to 20 Fa. and go out again by the fouthward. At the E. fide there is also a good Road before the Town of Lancerotta, but no Haven; and there lies a Bank to the N.E. of that Road; therefore to avoid it you must run about to the southward of the Island, where you may anchor in 11 to 12 Fa On the same S.E. side of the Island there are two other Havens, a large Cannon-shot from one another; the northermost is call'd Porto de Naos, the fouthermost Porto de Cavallos; but they are both very ill Havens, and dangerous to go into: The first, which is the deepest, goes in between two Ledges of Rocks: There stand two Heaps of Stones for Beacons, like the Warders of Norway; these you must bring into one, and keep them fo, and fail fo right thro' between the two Ledges There is also a Bar in the Passage; the shoalest of of Rocks. it is not above a large Ship's length over, so that you are soon over it: It has but 7 Foot at low Water and 17 at high Water. As foon as you are over, it deepens to 3, and to $4^{\frac{1}{4}}$ Fa. Then you must edge up N. and then again presently 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 should strike, she would infallibly split to pieces. The Ledge is the same without as it is within, very steep, so that you may come close to it; without the Haven 'tis all clean fandy Ground, 5 Fa. to 5 1: At high Water, with the Wind off Sea, here goes a great Swell, but the Winds generally blow from the N. and NE. fo that 'tis almost always smooth Water.

Porto de Cavallos, which is the other Haven on that fide, is very narrow, and lies among the Rocks, which are to the Seawards of you: The Haven is little more than a Cable's length over, and from the Entrance to the count Land about a Cable and half; and the Mouth of it is not oroad. The Rocks on both fides fhew themselves at low Water, but at high Water they are cover'd for a good way.

Between these two Havens lie two little Islands: At high Water you may go thro' on the inside of them into *Porto Cavallos* with Boats, but not with Ships; and at low Water Boats cannot pass, for it cbbs dry. You will see the Ruins of an old Castle on the southermost of those little Islands, which was formerly demolish'd by the *English*. From the S. side of the Island shoots off a Riss, and to the southward or westward of that lies the Bar, which is not above to Fathom broad.

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The N.E. the N.E. Poi dist. 14 Ls. before the T The best of Town, in 20 riffe lies N.N Pica Teneri Road of San Island of Gr There Islands; and Road off of Storm from comes in fu to flip their Sca, or get as the Winds

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jador, in a Line from N. to S. is 120 Ls; but as the Coast best guides the Sailors, 'tis near 145 Ls. 36.

On the Coast of Morocco and Sanhaga a S.W. and a S. Moon makes full Sea.

e Coasts of the Canary Islands.

So that when 'tis 5 or 6 Ls N.W. or S.E. from you, it feems to be an Island separated above a Mile from the other; but as you come nearer the low Land shews it felf. To go into the Road you must fail about the Point, along by the Isolettes, leaving them on the Starboard-fide, till you bring the Castle about N.W. by N. from you, and there you may anchor in 8 to 12 Fa. then the N. Point will bear N.E. by N. and the S. Point S.S.E. from you. At the S. end of this Island there is another very good Road for foutherly Winds, in a fine fandy Bay; the Road is call'd Massapalomba: There is also good watering.

The N.E. Point of Tenerisse, call'd Punta de Nago, and the N.E. Point of the Grand Canaries, lie N.W. and S.E. dist. 14 Ls. There is a Road on the S.E. side of Tenerisse, before the Town of Santa Cruz, where is a fair fandy Bay. The best of the Road is a little to the northward of the Town, in 20 to 24 Fa. and then the faid N.E. Point of Teneriffe lies N.N.E. from you, and the S. Point S. by W. When Pica Teneriffe is W. from you, you are open before this Road of Santa Cruz; and when you lie in the Road, the Island of Grand Canaries lies S.E. from you about 11 to 12 There are no Havens or Creeks in either of these two Islands; and therefore, tho the Roads are good, and this Road off of the Castle of Santa Cruz is the best, yet if a Storm from off Sea happens, you ride very hard, and there comes in fuch a grown Sea, that the Ships generally chule to flip their Cables, and run out to the S.E. and so go off to Sea, or get under the Lee of the Grand 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 Tenerisse, lies the Road Garrichica, bearing W.S.W. and S.W. by W. To lie right before the Town, you must anchor to the westward of the Cross call'd the Lion, being a Rock in the Shape of a Lion, having a Cross on it; to that the Rock must bear S.E. by E. and S.E. Then you may fee into the very Streets of the Town, thro' the Clouder of the Dominicans; there you have clean Ground in 36 to 40 Fa. and the Pica Teneriffe lies over the W. end of the Town. If you go nearer than 25 to 26 Fa. you have foul Ground, and so it is all westward towards the Rist of Lapania.

Tis needful to have Sails and Anchors ready, and a clear Ship, when you ride here, in case of a Storm; for this is a dangerous Road, and the only Remedy, as faid before, is to go out to Sea, or to thift Roads to foine of the other Islands.

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When you are in, you lie Land-lock'd for all Winds, and tho it should blow very hard, the Water is always smooth. A'. B. In both these Havens a S. by W. and N. by E. Moon makes full Sea. They who come here must be provided with fresh Water, for they very rarely find any here; nor has the Island either Fruit or Wine.

There is a little Island between Lancerotta and Forteventura, call'd Isle de Lobos; it is very foul on the N.W. yet you may anchor on both fides of it in 15 to 20 Fa. as also in 6 Fa. About Cannon-shot S.W. by W. from the W. Point of it, you may anchor Land-lock'd for all Winds except a N.N.W. and S.E. The Coast of Forteventura at the N.E. end towards this Island is very foul, with several Riss lying out, on which the Sea breaks exceedingly; and by the Breach of the Sea upon them you will know them. Tho these Islands are not much used in Navigation, 'tis needful to know the Dangers that are about them, that Ships if forced in by necessity may go safe.

West from Forteventura hes the main Island, from which the rest take their Name, the Grand Canaries, dist. 19 Ls; the Road is on the E. side of the Island, behind the N.E. Point, thwart of a Castle. The Land of the said Point is very high, with a long low Strand or Shore running out to the Main.

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Tis needful to have Sails and Anchors ready, and a clear Ship, when you ride here, in case of a Storm; for this is a dangerous Road, and the only Remedy, as said before, is to go out to Sea, or to shift Roads to some of the other Islands.

There is indeed a little Haven at Garrichica, where a few Ships may go in; but you must 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 Passage in the very Haven's Mouth; and tho the Sea breaks continually upon it, so 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 must buoy up your Cables with Cask, to keep them from the Ground. otherwise they will chase and cut; also you must bring two Cables a-head to feaward, befides one upon the Rocks and an Anchor a-stern fastned on Shore, so that the Ship may not wind Ebb or Flood. 'Tis a good Fair-weather Harbour, and fit for Summer; but in Winter Storms 'ris best to avoid it, for fometimes there comes such a rolling Sea in from the N.W. that a Ship could not ride it, tho she had ten Anchors out. They load Wines here in the Sealon, but no Ships care to flay here in the Winter Months.

There are three lading Places more, between Teneriffe and Garrichica, viz. Maramela, Relecho, and Oratama: And on the S.W. of Teneriffe is a little Bay call'd Adeffe, where you may lie well enough, except that 'tis open to a S.W.

From Teneriffe to Palma the Course is W.N.W. 18 Ls. Santa Cruz is the chief lading Place, where is a fair Bay, on the S.E. side of the Island: If you come from the northward, and would anchor in the Road, you must run in, till you are to the southward of the Head of the Bridge; there you may anchor in 25 to 30 Fa.

Be fure in the Winter not to come too near the Shore here, because of the S.E. or S.S.E. Winds. In this Road they ordinarily ride moor'd with two Anchors for the Sea Winds, and a small Anchor a-stern to keep the Ship right. To the eastward of the Town is a high white Rock with a Cross, and there is the best of the Road. A little to the northward of the Town is a fair sandy Bay, where is 25 to 35 Fa good Ground, more or less, as you he farther off or nearer; 'tis

b

call'd Rammel Road. When you lie in the Road of Palma, Prea Teneriffe bears E.N.E. from you. On the S.W. fide is

another lading Place call'd Tassa Corda.

The Island of Gomera lies about 6 Ls W.S.W. from the W. end of Tenerisse; there is a good Haven on the N.E. side of it, with 10 Fa. Water. There is better lying here than in any of the other Islands, for its safe almost with any Winds: You

Sailing Directions for the rest of the Sea Coas Bajador to the Gulph of St. An

OST of the Coast from Point Suhi to Cape Bajador is W. and S.S.W. From Cape Bajador the next Place of note is Cape Olloquedo, dist 56 Ls S.W. Between Bajador and Olloquedo are several good Capes and Bays tho of little note, viz.

Penne Grande, Terra Alta, and Rubias. This Coast is very rugged, and the Rocks standing out together are called the Seven Points or Capes. The Bay of Rubias is very large, with a fine landy Shore, and continues to till you are past the Seven Mountains; and the Bay de Cavalles, to Cape Olloguedo: A little Riff lies all round the Cape, beyond which, at the S. fide of it, comes in the River Oro, a great River lying under the Tropick of Cancer. The Country is one great bare and barren Rock, and the Sun thining upon the Rocks makes the Heats infufferable; this Land, is call'd Terra Baxa, or the low Land: 4 Ls to the fouthward, there is a Land-lock'd Bay, call'd ignorantly in our Pilot Books Irra Barree; it should be Terra Baxa, or B_{axea} ; it is a large Bay, and there is good anchoring in feveral places fecured from most Winds, especially 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: These make the Place fecure, for you may run in between the faid Riff and the Sand Bank, in 20 Fa. and when you are within the Bay, ²tis fate riding and good Ground.

The Ships which come upon this Coast a fishing, run into this Bay in the Evening for safety, and so out to Sea in the Morning. Upon all this Coast, between Cape Blanco and

the River Oro exclusive, there is no fresh Water.

From Irra 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 Coast lies near W. by S. and you pass by Terra Area and Playes to the Rio St. Cypriano, on the W. of which River you will find some cliffy Illands, till you reach Cape Barbas.

From Cape Barbas S. by W. 10 Ls. lies Cape Carvasone; the Coast is all the way very soul, and from Cape Carvasone the Coast is due S. to the Gulph of St. Anne, being a large

Bay with good fandy Ground.

N. P. AS.W. by W. and a S.W. Meon makes full Sea upon

irections for the Western Coasts of Africa.

Road of *Palma*, the S.W. fide is

W. from the W. the N.E. fide of here than in any ny Winds: You

may indeed lie without before the Haven in 20 Fa. but if it blows, you must shift Roads: The Road of Adesta in Teneriss lies just over-against it E. distance about 6 Ls. Palma lies N.W. by N. 16 Ls. and the Island of Forro lies S. by W. from Palma 12 Ls.

N. B. A S.W. and N.E. Moon makes high Water at most Places in the Canary Islands.

f the Sea Coasts on the West Shore of Africa, from Cape ulph of St. Anne, and thence to Sierra Leon.

Subi to Cape Ba-Cape Bajador the eguedo, dist 56 Ls Hoguedo are sevelittle note, viz. This Coast is

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Cape Carvafone; om Cape Carvafone one, being a large

be obliged to turn before you come into the Road. The S. Point of the Cape is very clean, which when you pais you run N.N.E. 3 Ls to Cape Canfado.

To the N. of Cape Blanco is Slopers Bay, and a Riff runs from the N.E. Point of it, behind which you come to an anchor; and N.E. you go towards Bochle Bay, and still more northerly the Bay of Angra, or the Great Bay, properly so

called.

This Coast is call'd Angra Canjaboda; as you pass it, you meet with the Island of Gnaon, and farther southward the Island of Tassin. There are some Chiss on the northward Point of it, and the like to the southward; but you go clear of them all, by giving these little Islands and the Coast also, a reasonable Birth.

Two or 3 Ls from Cape Blanco fouthward, a great Sand Bank stretches it self out S.S.E. and N.N.W about 28 Ls, and at low Water the southermost end of it ebbs dry. This Sand is call'd Blank Bank.

In going from Cape Blanco towards Arguin, run S.E. by S. about 3 Ls, till you are past the Cliss of Rio de Sonsa lying seaward; then towards the E. southerly of the Cliss that hes on the Point of the Main, and about two Ls still eastward, you come to the Island of Arguin: And to the westward of the Island lie two long small Islands, the westermost call'd Obes. In the Bay of Arguin, on the N. side, lie several Shoals from the Main; and from Arguin S. easterly, towards the Long Heads, are some Cliss to the seaward; and farther S. you will see several Bear Stables. There is also a little Island by the Point call'd Terra Gorda, and more to the southwards another call'd Monzora.

If your Vessel be small, and you go southward towards the Wyck and to the River St. John, you may keep the Shore on board, and run along by the Main between the Islands of Sarne and Gonzana, only taking heed of a Russ upon the Coast of the Island Tyder to the Point of Terra Gorda.

At the Entrance of the River St. John are several Shoals; but having passed them, you find a good Haven, called Point Tassia.

In this Course, from Cape Blanco to the River St. John, you must keep off without the Great Bank, and take heed of

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N. P. AS.W. by W. and a S.W. Moon makes full Sea upon all this Coaft.

Cy Blanco hes S. from Cape Carvafore 16 Ls. To the cashward of the Cape runs in a great Bay, where there is a good Road, as is also under the Cape it self; you must go else by the Cape to come to an anchor, bringing short about: You have nothing to fear in your coming from the northward, but what is plain to be seen; nor need you be apprehensive if you hear a prodigious noise and whelming of the Sea hereabout, it being nothing but the dashing of the Currents one against another: Nor are you to be surprized by the Fall of the Water at the Corner of the Cape, where it ebbs dry 4 to 5 Fa. in a very little time; but you will find 6 to 7 Fa. remain at low Water, near enough the Corner for Ships to come.

In soing about the Point of the Cape you must not give any Wind over, but sail as near as you can, and yet you will

Sailing Directions for the Sea Coasts of Africa, judicing thence to the Cape de Verde Islands

INDFL is a remarkable Point, having one Bank of Sand lying to the fouthward of it, and another to the caffward: The Coast from thence almost to the River of Sengal bears southerly, and then it falls S.W. till you come to Banka. On the Point of the River, betwixt Tindel and Senegal, are many Places, such as Incey, Tomfa, Great Palme, Little Palme, Gunar, and Rio Dike: but they are of no note to the Sailor, nor of any me in Navigation.

The River Senegal is more properly one of the Mouths of the great River Arger, and should be mark'd so in the Charts, tho 150 Leagues off of the other, which is the main Stream, and call'd Rev Grande. There are several Reaches and Bays within the River it self; great Ships may go safely 6 or 7 Ls up it, smaller Vessels 30 to 35 Ls, Sloops and Barks 70 to 80

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In this Course, from Cape Blanco to the River St. Yohn, you must keep off without the Great Bank, and take heed of the southern Tail of it which lies dry at low Water; then run easterly by it, till you come before the River: You may go between the Great Bank above-mention'd and the Island Bankring, and that without danger, being careful with your Lead.

Cape Mirrick is your next Land on the Main: It lies on the S. fide of the River St. John, extending it felf 2 Ls into the Sea, and on the S. fide of it lies a Bank which runs 2 Ls. farther: There is also a Salt-Pan, or Pond, on the E. fide of the Bar of Cape Mirrick.

From hence the Coast lies S.E. by S. and S.S.E. till you come to a Sand Bank in Lat. 18 deg N. To the S. of Cape Mirrick hes Tindel, dist. 18 Ls, and several other small Places, but of no note for failing, so not worth our naming.

As of Africa, from Cape Tindel to Cape de Verde, and Verde Islands, inclusive of those Islands.

wing one Bank and another ence almost to r, and then it int of the Ri-Places, such as funar, and Rio or, nor of any

the Mouths of in the Charts, ic main Stream, iches and Bays lafely 6 or 7 Ls Barks 70 to 80 Ls, and finall Boats to many hundred Miles. The Portuguese Pilots give the Depths of Water in the Channel, and the Setts of the Currents in the several Reaches, as also what anchoring in the several Bights of those Reaches, with an exact Account of the Shoals and Sands which lie off of the Points, of which some lie several Ls, right up and down, as it is in most great Rivers: But there can be no use of these Descriptions in this Work, no European Traders having for many Years attempted to fail up there; except the Portuguese.

The Coast from the River Senegal to Cape de l'erde bears S.W. About midway there is a large Bay, sase for all Winds; but the Shore on either side must be avoided as you go in, because of the Riss which run out at both the Points.

The Land to the E. of Cape de Verde is low, and as far as you can fee is grown over with low Buffies. As you fall in

with

Sailing Directions for the Western Coast

with the Cape you make it like two round Hills with low flat Grounds to the eastward, but to seaward it is steep, and you have 40 Fa. within 3 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 pleafant, 'tis suppos'd gave name to the Cape it felf.

To the westward of the Cape the Land is all low, and so flat as not to be feen at a diffance; and there are fome Breakers all the way about it from the Cape, so that it is not advisable to fland in too near, not within 3 to 4 Ls; the on Occasion there is deep Water within those Breakers, and you may, as Weather permits, run thro' between the Rocks and the Cape;

but there feems no Occasion for it.

Betwixt the Cape de Verde Islands and the Main there is a large Shoal call'd Purgat Bank, just in the Middle of the Palfage; it stretches from N. to S. about 60 Ls; the southermost end lies about 50 Ls due W. from the Cape, and the Waters near the Shoal mount upwards against one another with a prodi-

gious force and noile.

As you come from the northward towards the Cape, it appears with the two high round Hills as before, the Sailors call them the Womans Breafts: The fouthmost of them is cover'd with Palm Trees, and to the northward of them are other finaller Hills; fome of them have a few Trees, but most of The S. fide of those two Hills is exceeding them are bare. fleep, and from thence begins a Shoal which runs along to the very Cape it felf.

These Islands take their name from this Cape; they are call'd in Portuguese Ilhas de Cabo Verde, in Spanish Los Ilhas de St. lago, by the Dutch the Salt Islands, and by us, as above, the Cape de Verde Islands. Their Names are,

St. Vincent.

St. Antonio.

Ifle de Fuogo, or of Fire; from

the burning Mountain upon

Ifle de Sal, or of Salt.

Bona Villa. Ille de May.

St. lago, or St. James.

St. Nicholas.

Isle Brava, or Isle of Rogues. Chaon. St. Lucia. The Ifle de Sal shews very high at a distance, as you come

from 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 must come no neater to it than 8 Fa. but give it a good Birth. On the N. fide is a River, and on the S.W. a small Haven, with a little Island just by it; also a good Road about Musket shot to the southward of the W. Point. The Ships ride by a long fandy Bay, and there is good fresh Water there,

which comes down from the Mountains.

From hence to Bona Vista the Course is S.E. 9 Ls. 'tis known by feveral white Banks on the N. fide; the Land is low and fandy next the Sea, but within Land it rifes in high Hummocks and finall 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. end a rapid River runs into the Sea, which makes fuch Ripplings as are dangerous, especi-

Houses, it is as of that Head is Ifle of May be: there you have but you must ke which the two get no Ground, 15 or 16 Fa. a All the N. fide of ings, is very ro about a mile lo low Water, and of the Sea upon Point bearing E Ground and fa about the Island

St. Lago is du high Land, and good Road, at fland, and lies at Fa, the Shore is a but they must b which will rot S.W. from that of that, Port and beyond th but the Land is

13 Ls to the and a Ls from Brava, both lit of feveral forts of the S. fide: there is a Hav Ships, and fafe Ille de Fuogo, o 'tis difficult to W.S.W. from B Water, and is n high upon it, Sailors concern is cover'd fo as the Fair Way b and Ships may from hence to Caribbee Island a large Buoy up

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Houses, it is as good as a Wharf. A mile to the northward of that Head is the Road. Observe when the W. end of the Ifle of May bears N. by W. and the S. end of St. Iago S.W. there you have 15 to 16 Fa. in the Road and good Ground; but you must keep a good distance from the Cape or Head on which the two ruined Houses are, or else it is so steep you will get no Ground, for it lies to uneven, that when you have 15 or 16 Fa. a Head, you shall have above 100 Fa. aftern: All the N. fide of the Illand, and where you have some Shoalings, is very rocky: also to the northward there lies a Bank about a mile long, and a L from the Shore; 'tis almost dry at low Water, and may be known when cover'd, by the Breach of the Sea upon it. On the W. fide of the Island, the fandy Point bearing E.S.E. 4 miles, you have a Bay, with 11 Fa. good Ground and fafe Riding; and this is the only good Riding about the Island.

St. Iago is due W. from the Isle of May about 6 Ls; it is very high Land, and may be icen far off at Sea; it has also a very good Road, at Port Praga, which is the chief Town on the Island, and lies at the E. end, where 100 Ships may ride fase in 14 Fa, the Shore is muddy, and a Ship may lie close to the CastleWall, but they must buoy up the Cables to keep them from the Mud, which will rot them sooner than would be thought possible. S.W. from that Road is Tubaroa Point, and to the westward of that, Port Resbeirra, a Harbour between 2 Mountains; and beyond that, about Portalesa Point, is Port Canison, but the Land is very foul on that side.

13 Ls to the wellward of St. lago lies the Isle de Fuogo; and 4 Ls from the E. Point of Fuogo W.S.W. lies the Isle of Brava, both little rocky mountainous Islands, but full of Trees of feveral forts. There is a Road at the latter, on the W. end of the S. fide: there is good Watering also on the W. fide, and there is a Haven on the S. where is Water enough for large Ships, and fafe Riding: But there is no anchoring under the Ifle de Fuogo, except on the W. fide under the Callle, where 'tis difficult to come, and dangerous when you are come. W.S.W. from Brava So Ls, lies a Shoal which has but 3 Foot Water, and is not above 20 Fa. long: and the Sea rifing very high upon it, there is the more reason to give a Caution to Sailors concerning it, not only as it lies in the open Sea, and is cover'd to as not to be feen at a diffance, but because it lies in the Fair Way between these Islands and the Coast of America, and Ships may be in great Danger of striking upon it in passing from hence to the Brafils, or from the Coast of Guinea to the Caribbee Islands: for which Reasons it would be well to place a large Buoy upon it.

The Isle of St. Nicholas lies W. from the Isle of Salt 22 Ls. On the S. side of it, near the E. Point, lies the Road of Port Perguica; and to the westward of that, about the middle of the Island, lies Port Fuder Sal. The Isle Chaon lies off of the W. Point of St. Nicholas about half a L. being a small Rock almost joyned to the main Island.

N.W. from St. Nicholas 3 Ls, lies St. Lucia: On the S.E. fide of it there is good anchoring, in a Bay which lying within the Rocks is thereby made a natural Haven: also on the S.W.

Chaon. St. Lucia. Isle Brava, or Isle of Rogues.

The Ifle de Sal shews very high at a distance, as you come from 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 must come no nearer to it than 8 Fa. but give it a good Birth. On the N. side is a River, and on the S.W. a small Haven. with a little Island just by it; also a good Road about Musket shot to the southward of the W. Point. The Ships ride by a long sandy Bay, and there is good fresh Water there, which comes down from the Mountains.

From hence to Bona Vista the Course is S.E. 9 Ls. 'tis known by several white Banks on the N. side; the Land is low and fandy next the Sea, but within Land it rises in high Hummocks and finall Hills like Sugar Loaves. On the N. part the Shore is bold, but on the N.E. a low sandy Point runs out above a L. into the Sea. At the N. end a rapid River runs into the Sea, which makes such Ripplings as are dangerous, especially to Strangers. E. and E. by N. from the S. Point of Bona Vista, there is a Riss of Rocks, which lie some above and some under Water for a L. or a L.; off from the Point. Under the S.W. Point is a very good Haven, where you may ride in 15 to 16 Fa.

About 14 Ls from Bonal isla S.S.W. lies the Isle of May. On the W fide of it is the great Salt Pond, it lies about a L within the Land from the N. Point, the Shore being a white Sand; and hard by it is a steep Head, upon which are two old ruin'd

W.S.W. fron Water, and i high upon i Sailors cone is cover'd fo the Fair Way and Ships m from hence i Caribbee Isla a large Buoy

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Sailing Directions for the Coast of the River Gambia, a Roxo.

N coming from England to Cape Verde it is to be obferv'd, you first make the Canaries, the Course S.W.
by S. or S.S.W. Then you must run between Tenerisse and Palma or between Tenerisse and the Grand
Canary; and then steering S.W. by S. you go away
to the Cape de Verde Islands, and then away to the eastward

to the Cafe Verde it felf.

In this Course Care must be taken, after you are past the Canaries, to keep no farther to the W. than S.S.W. that you may get your Difference of Longitude, and hkewise taking care that your Compass may not deceive you because of the Variations; then you may run between the Salt Islands and the Main; taking care also to avoid the Purgat Bank abovemention'd.

At the end of the Purgat Bank, due W. from the Cape about a L, he 6 or 7 Cliffs or Rocks, call'd by our rude Seamen the Beshitten Islands, nor do we know any other name for them: Of these, 2 are larger than the rest, which at sirst View look like Canoes. You may go by them in about 7 to 8 Fa. at a

Gun-shot distance rolling Ver enough, a 11 Fa. There distance, there the Island towing to Cape E.

When the C then it appear the Sea, and w the E. with a f ward, and wo Point, and ru anchor in 15 and half N.N. Verde; and al tle Town call' on the Coaft W.S.W. from Brava 80 Ls, lies a Shoal which has but 3 Foot Water, and is not above 20 Fa. long: and the Sea rifing very high upon it, there is the more reason to give a Caution to Sailors concerning it, not only as it lies in the open Sea, and is cover'd so as not to be seen at a distance, but because it lies in the Fair Way between these Islands and the Coast of America, and Ships may be in great Danger of striking upon it in passing from hence to the Brasiles, or from the Coast of Guinea to the Caribbee Islands: for which Reasons it would be well to place a large Buoy upon it.

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The Isle of St. Nicholas lies W. from the Isle of Salt 22 L3. On the S. side of it, near the E. Point, lies the Road of Port Perguica; and to the westward of that, about the middle of the Island, lies Port Fuder Sal. The Isle Chaon lies off of the W. Point of St. Nicholas about half a L. being a small Rock almost joyned to the main Island.

N.W. from St. Nicholas 3 Ls, lies St. Lucia: On the S.E. fide of it there is good anchoring, in a Bay which lying within the Rocks is thereby made a natural Haven: also 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 lies St. Vincent: There is good anchoring on the N.W. fide of it in a large deep Bay, where you are shelter'd almost for all Winds and Weather, and clean good Ground, with from 8 to 20 Fa.

About 3 Ls N.W. from hence lies St. Antonio, the most northerly of all the Cape de Verde Islands: There are 2 very high Mountains on it, generally cover'd with Clouds. On the S.E. side there is a Bay, and a good Road for Ships in it.

ver Gambia, and from the River Senegal to Cape Roxo.

Gun-shot distance. The Sea makes a great noise here, with huge rolling Waves, all soaming and white: but there is Water enough, and if you keep a little off, you will have to to 11 Fa. Then run along easterly towards a small high Island, dist about 2 Ls, and about a L and half from the Shore, call'd Goree, there you have 16 to 17 Fa. all the way: and thwart the Island towards the Main lies a Bay with a slat Strand reaching to Cape Emanuel, where is good anchoring.

When the Goree comes without the Point of Cape Emanuel, then it appears on the W. fide with a high Mountain close to the Sea, and very steep, and yet very low on the Land side to the E. with a slat stony Strand: when you come from the westward, and would go in here, you must run seaward about the Point, and run under the Island on the inside, there you may anchor in 15 to 16 Fa. over against a sandy Bay. About a L and half N.N.E. of this Bay stands the Village call'd Cape Verde; and about 6 Ls to the westward from thence lies a little Town call'd Restrictor. Here, and at almost all the places on the Coast near it, you may get fresh Water, and such Restreshments

freshments as the African Coast assorbed, particularly good Goats Helh and Rice.

From the Goree to Refrisco you fail all along near the Shore, which is low, and has a fair Strand; there are leveral Towns, tho of no Importance, where you may get frelli Provisions. On the fide of the Land beyond Refrisco westward, dist. 3 Is, lie fevera! Rocks call'd Compaens, or the Companian Rocks; they lie close under the Land, and reach about a Gun-shot into the Sea, fo you must keep a little off, and give them a Birth: If you pass by in the Night, keep in about 17 Fa. along Shore, heaving the Lead all the way; tho the Land will shew you the Rocks, for all the rest is as smooth as if levell'd by hand: when you come near the Cliffs, it fuddenly dries 7 to 8 Fa. then come to an Anchor till Day, and you'll fee the Ships in the Road, or at the Town; and then ride eafterly according to the Season: If it be in the time of the Travados the Road is not good; then you must anchor in no less than 17 Fa. The Goree is the best Road at that time, and that is so bad, that fometimes all your Anchors and Cables will not hold your Ship, especially when a S.E. Travado blows; but in Summer the Road of Refrisco is best, where you may lie close to the Shore in 6 to 7 Fa.

From Refrisco to Point Dalli is 7 Ls; your Course is in 8 Fa. along Shore castward; there is a Bay about 3 Ls onward of the way; and if you would put in there, you must keep off in 16 to 17 Fa. till you are at the full height of it, and then stand

right in.

About half a L to the fouthward it ebbs again fuddenly 4 to 5 Fa. fo that you must use your Lead continually. If you come from the westward, as soon as you see these Shoals, you will alto see the little Houses of Point Dalli. The Road here is only for small Vessels which lie close to the Houses, between the Cliffs. If you come from the westward with large Ships, you must take heed of that shoaly part, keeing to seaward in 9 to 10 Fa. for this Road is not for large Ships. If you would anchor before Point Dalli, keep a high Tree call'd Arbre de Canally E.S.E. from you, and come no nearer the Land than 5 To the castward lies Ivala, with a finall Harbour close by the Land, where large Ships may ride with a Head-fast on Shore very lecure in 5 to 6 Fa. nay, the Ground upon this Coast for feveral Ls is all so even, that close to the Shore, and within 3 Ls of it, you have still the fame Depth, viz. 5 to 6 Fa. This is occasion'd by the Shoal of Ivala, which lies off from the Shore for a great length of the Coast, and being even Ground to the outer Edge, goes off at once into 5 or 6 Fa. fo that you have that Depth close to the Shoal; and after that the Ground being fo even below, the Water is very calm and fmooth above, and a little Wind does not stir it as in other places. Nor does the Sea break here as in other places, unless it blows a Storm, that is, a mere Travado or Hurricane.

If you come from the westward, the Shoal dries up so, that at one Cast you will have 12 Fa. and at the next 7. It reaches half a L from the Land: Go then S.S.W. a little from it, and

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The Mouth of the River Gambia is near; Ls broad, with about 5 Fa. in the Entrance: you may row into it with your Shallops against the Stream near 100 Ls: but then you meet with a great Waterfall, which with a violent Noile comes pouring off the Rocks, and is impassable.

The Channel is generally very broad, especially from the Gold Coast of Cantore to its Mouth; and it falls into the Sea with so strong a Current, that you may take up the fresh Water above 5 Ls into the Sea. Some French Shallops, as also Por-

tuguese Barcolongos, go up a great way, but no Ships.

Cape So. Mary is in Lat. 13:40. upon the Coast the Ground is changable; the farther to the fouthward, the whiter it is; for first near the Cape 'tis a reddish Sand; 2 or 3 Ls southward it is all grey; and about Cape Roxo 'tis a fine white Sand sit for Hour-glasses. The Coast between them is very low, and cover'd with Trees and white Sand.

To fail from Cape St. Mary to Cape Roxo, keep along shore in 5 Fa. sandy Ground, till you come to the Shoal of St. Pedro, where you have but 4 Fa. and the Ground muddy: then you have 5 Fa. all along to the River Cafamauca; but within 3 Fa. Depth off shore its very red Sand. About 3 Ls to the northward of Cape Roxo, thwart off of a sleep cliffy Point, the Ground is to clammy and shift for about 3 Musket-shot from the shore, that you can hardly draw the Lead out, and but two Fa Water.

Sailing in 5 ka thwart off from Cape Rono, and being bound towards Katchee, you run S.E. to the Shoal call'd Tabuea; but if it be Flood, fleer S.E. by S. where you will find 4 to 5 ka. When a high Tree in the middle of a rough Bay, between the Dry and Red Point, bears N from you, then you are line you

are at a Shoal which lies off of the Bay. Then as Wind and Tide ferve, run fouthward, which you will find work enough to do, the Stream fetting thwait to the fliore: in that Tack you will fee 3 Waves or Bars always mounting against one another, like the blowing of a Whale; if you don't fee them, you are fure to have a bad way, because 'tis dangerous to pals without feeing the Shoal, and you floud rather he by, or come to an Anchor till the Water talls, for then you will fee it: As foon as it appears, break Ground, and go to the caltward, till the breaking of thole 3 Bars appear behind you: Then, whether it flows or ebbs, run away E. by N. and keep in 5 I a. at most in 5 and 1; if you come deeper than 6 Fa. you must tack about to the N. till you recover 5 That which is the only right faring Depth; all deeper ways are wrong, and will end at tome Shoal or Chiff: then with a Ealling Tide you will fee the North Bank running E, by N.

If flanding thus N, by E, you chance to come into 2 Fd, hard Ground, you must tack to the seaward, for there is a shoal call'd Juan de Coimbra, from which there shout a Riss, which you must pass before you come to the North B ink: Take care you do not edge too much to the southward of it, but the Breakings will guide you; they begin before the Water

is one third fallen.

anchor Sciore Point Balli, keep a nigh Tree call'd Arbre de Candia E.S.E. from you, and come no nearer the Land than 5 To the castward lies Ivala, with a finall Harbour close by the Land, where large Ships may ride with a Head-fast on Shore very secure in 5 to 6 Fa. nay, the Ground upon this Coast for feveral Ls is all so even, that close to the Shore, and within 3 Ls of it, you have still the same Depth, viz. 5 to 6 Fa. This is occasion'd by the Shoal of Ivala, which lies off from the Shore for a great length of the Coast, and being even Ground to the outer Edge, goes off at once into 5 or 6 Fa. so that you have that Depth close to the Shoal; and after that the Ground being to even below, the Water is very calm and smooth above, and a little Wind does not stir it as in other places. Nor does the Sea break here as in other places, unless it blows a Storm, that is, a mere Travado or Hurricane.

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If you come from the westward, the Shoal dries up so, that at one Cast you will have 12 Fa. and at the next 7. It reaches half a L from the Land: Go then S.S.W. a little from it, and you have prefently deeper Water; and when you are past it, you may go along Shore in 5 Fa. again to the Road of Ivala. You will know when you are past this Bank by the Ground; for on the Bank it is hard as Stone, but when you are nearer the Land than Fa it is for Ooze above, and fandy under the Ooze; more eafterly passing by Izyla it is red Gravel and very hard. Then to the S.E. you'll fee a parcel of Palm-Trees under the Shore, which look as if they flood in the Water, the Groundbeing very low; at the same time will appear some Negroes Houses within the Land: then run towards the Shore in 4 Fa. Here you will find the Shoal run like a Tail from the Land, the Sea rippling upon it, and you will find your Ship driving, and the Sea weed floating upward, by which you will fee the Paffage or Fair Way in; but you must take care of the Tail of the Bank, and not fleet faither northward till you fee to the fouthward 2 high Palm-Trees call'd Los Duos Irmanos.

When those 2 Trees are to the S.W. from you, you are in the Harbour, and may anchor in 5 Fa. To the northward within the Point is the Road of Ivala: From hence you may run along the Coast in 9 Fa. but more easterly it dries up

to 1 Ta.

When you approach the River Gambia, the Ground is a muddy Sand, by which Token you will know you are right with the Mouth of the River: And at Cape St. Mary, which is the E Point of Granbia, 'tis full of red Shells. You will know Care St. Alary by a very tall Tree on the top of the Point; when that Tice is S.S.E. dift. 3 Ls, you may ride in 4 1 to 5 La. it flows there S.E.

To go clear of Shoals, and the fouthermost Land or Bank of the River Gambia, steer S.W. by W. and W.S.W. or if you can, fleerW. till you have deeper Water; for in standing to the westward the Water deepens from 5 to 12 and 24 Fa. and about 16 Ls W N.W. you have 38 Fa. If you come from the northward, you must not come nearer to the River's Mouth than 10 Fa. before you fee the Cape; for the N. fide of the River is fo fleep, that if you come but to 9 Fa. you will immediately run aground.

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oft Land or Bank V.S.W. or if you in flanding to the 24 Fa. and about the from the northis Mouth than 10 if the River is fo minediately run

It you don't lee them, you are live to have a bad way, because its dangerous to pass without seeing the Shoal, and you should rather he by, or come to an Anchor till the Water salls, for then you will see it: As soon as it appears, break Ground, and go to the eastward, till the breaking of those 3 Bars appear behind you: Then, whether it slows or ebbs, run away E. by N. and keep in 5 Fa. at most in 5 and \(\frac{1}{3}\); if you come deeper than 6 Fa. you must tack about to the N. till you recover 5\(\frac{1}{3}\) Fa. which is the only right faring Depth; all deeper ways are wrong, and will end at some Shoal or Clist: then with a Falling Tide you will see the North Bank running E. by N.

If flanding thus N. by E. you chance to come into 2 Fa. hard Ground, you must tack to the seaward, for there is a shoal call'd *Juan de Coimbra*, from which there shoots out a Riss, which you must passbefore you come to the North Bank: Take care you do not edge too much to the southward of it, but the Breakings will guide you; they begin before the Water

is one third fallen.

There stands a high Tree upon the E. side of the Land that comes from Cape Roxo, 'tis call'd Arbor de Casticuis: when this Tree is N.E. and you have 3 \(\frac{1}{2}\) Fa. run in towards it, and you will see the North Bank; when you have it, run along to it within Gun-shot; and when you have past by it, run castward a good way, if the Water be falling; if slowing, run E. by S. by which Course you will be sure to get the South Bank, where is always burns; run along the South Bank, keeping within 5\(\frac{1}{2}\) to 6 Fa. then go about a Tail that comes off from the South Bank in 5\(\frac{1}{2}\) Fa.

When the Forest call'd Ruy Pereira lies northward, the W. Point of Praya de Vacas N.W. and the E. Point N.E. by E. from you, then you may run in 2 Fa. at the deepest, quite over the Southern Bank; and when you find but half a Foot deeper Water, you are quite over it and safe; then you go up the River with the Flood, and anchor before Kuchee: But in using this Fareing Water, you should always have an Anchor ready at the Bow, with the Buoys over board; not must you come within 2 Fa.

Being past this Shoal, and bound to Caravellas, you go S.E. in 8 Fa. to the Islands Los Illgetos, all the way from 12 to 6 Fa. muddy Ground; then go about N. till the Arbor Captionis stands right before you N. and keep thus till you are past the Bank: In this Course you have the R. Aucras and the Point of the last nam'd Land E.S.E. from you; and when you are past the Bank, you have Praya de Vacas N.E. right a head, till you are past the Corra Ruyva: then Dos Vacas shifts as you

go into the Streight.

To go from Cape Rono to the S. fide of the Los Illyctos, go first to the southward into 6 or 7 Fa. the Ground slimy and soft: being then N.E. and S.W. with the Shoal, and Water slowing, you go S.S. E. but if the Water be falling, then S. castward, according as you see the Breaking on the Shoal: then yourun along by it with your southeasterly Tack in 5 Fa. muddy Ground; but if you find the Ground turn hard, then stand to

Sailing Directions for the Western

the fouthward, keeping still in 5 Fa. The Distance from the Shoal to the Islands is 3 Ls S.E. and when the biggest of them

is N.W. then you may run in.

There is a Bay in the middlemost of these Islands, where you may ride in 5 to 6 Fa. there is a large Point still of Palm-Trees, with a sandy Strand, and eastward from that a Riff lies thwart the Strand: From thence you may run with a latter Ebb to Point Bostas, round a Flat which lies between them both, and away by the Coast to the Strait of Catabarina. In going from Casa to Point Bostas, your Course is S. The Point is known by a great Wood on the Land, which appears right a head: you must not come near the Point for there is a Riff runs off to seaward.

From these Islands called Cuja, and 5 Ls without the Point, lies a Shoal; if you rim about it, you must bring to, and come to an anchor till high Water, on the E. side of the Islands: Then weigh upon the Ebb, and run S. by W. thro' between Point Batuma and the Island Galmes. When the Island Arcaste lies N.E. from you, then the Shoal of Pedraira lies N.E. and S.W. The said Shoal and Island lying N.E. and S.W. from one another. N. B. The Fair Way is in 4 Fa. but you need not fear if you find but 3 Fa. for the Ground is uneven, sometimes 4 and sometimes 3. In going thro' between Point Baluma and the Island Galmes, you find a great Rippling and Whelming of the Water, as if there was a Shoal; but it is only the thwarting of the Currents, the Water is deep enough.

If you anchor in any Bay on this Coast, take care the Ground be clean, and come not too near the Land, lest you run on

Shore.

With the latter Ebb you run S.E. from Baluma to Bifegos, till you come to the Point Efelavos, which is a part of Bifegos, but broken off and looking like an Ifland: then paffing by Croas-Bifegos, you go between 2 flony Banks and Shoals which come from the northward: Then turn to the S. fide of Croas-Bifegos, and run N.E. to Primero Point Bifegos, but come not near it, because of a Stone Bank which lies off: when you are past the Point, run boldly up the River, keeping the Mid Channel.

From Balania to Serra you go S.E. right on a little Island on the S.E. fide, with the same Tack: when you are within Gun shot of it, run on S.E. to the Isle of John Viegra, where you will have 10 to 12 Isl. along by some Shoals, which lie 2-

bove Water on the Larboard fide.

Bring the Point of the Hand Rovo W and W.N.W. As foon as you fee the Shoals, it will change to N.W. when you must must to the S.E. so all the Shoals will be on your Larboard side. This deeper on the S.W. with some Rists reaching to seaward. On your Starboard side, as you go on the southern Tack, you will see another Rist above Water, at the end of the Channel of John Progras; which when you have past, you run S.E. keeping the Islands on your Larboard side, and passing by the Island Poulov as far as the Island May; that Tack S.E. will bring you to Cope Verga.

It you meet with a Shoal in any part of this Course, keep more castledly; and if you find above 10 Fa. stand to Sea-

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It is a broken low Land all the way between De las and Sierra Leon, with feveral Rivers opening into the Sea, chiefly one called Surra Leona, which runs to the northward of the Point. 'Tis eafy to diffinguish the Point of Sierra Leon, because '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 Sea, it appears like an Island; but as you come from the N. it makes plainly to be a part of the Main, as it really is. If you come from the N and W to make Sierra Leon, keep in the Lat. 8. 21. and when you are by your Reckoning in that height, fland in for the Land, for then the Cape will bear due E. from you; but you must make Allowance in your Reckoning for the Current about a Point and a half S. When therefore you are in this Lat, you will have gradual Shoalings from 15 to 9 or 10 Fa. then you may boldly run in for the Cape: when first you make the Cape, you will see the low Land eastward of it, with a Clump of Trees on it, and 2 Rocks right before the Cape to the feaward, with fome Shoals, which the Sea almost always breaks upon.

Keep the Breakers within 2 Cables length of you to Starboard, and run in, you will come into 9 and 10 Fa. the deepet

Water is on the South Shore.

N. B. It is to be observed here, that by your Reckoning you shall not be able to make out the same Meridian Distance which the Charts make upon all this Coath, because the Current sets from the N. to the S. easterly; and the nearer the shore, the stronger the Current: therefore you should take care to work by your Lead, before you think you come near the Shore; for you will find where you are, by the Depth of Water, better than by casting up your Reckomngs: for in this Lat, you will have 25 fa. before you see the Land, nor will you see the Cape till you come into 10 fa.

Cape Sierra Leon makes in high Hummocks, lying a L within, and on both fides of the Point; the Land about being cover'd with Trees. On the S. of the Cape to feaward, dift. about a mile from the very Point, lies a Rock under Water, which is dangerous to those 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 11 to 15 Fa. which Depth holds till you come to *Frenchman's Bay*, the ulual place to wood and water in. In this Bay you may anchor in 10 Fa. close by the Shore.

If you would go higher up to the English Factory, you must come to an Anchor in Frenchman's Bay, and send your Boat up for a Pilot: the English Factory is in an Island up the River, call'd Benzie; it was formerly plac'd in an Island near the Shore call'd Tercera, but they were so harais'd with wild Beasts, that they were oblig'd to remove.

The Entrance into this River makes in 5 fmall Bays, and there is good anchoring in them all: The third is call'd Frenchman's Bay, where is good fresh Provisions, and plenty of very

good Rice, besides Wood and Water.

In coming out here, you should be careful to watch for the Land breeze, for then you keep Mid Channel, and go out

come not near it, because of a Stone Bank which lies off: when you are past the Point, run boldly up the River, keep-

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From Baluma to Serra vou go S.E. right on a little Island on the S.E. fide, with the fame Tack: when you are within Con-shot of it, run on S.E. to the sile of John Viegra, where you will have 10 to 12 Fa. along by fome Shoals, which lie above Water on the Larboard fide.

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bring you to Cape Verga.

If you meet with a Shoal in any part of this Courfe, keep more casterly; and if you find above 10 Fa. stand to Scaward; but if the Water keep the fame Depth, keep right on to Cape Verga. The main Land from Poulon to Cape Ver-(7), appears low and full of Trees. But when you pals the May, you have fome high Points of Land extending feawards. and foir continues fouthward a good way. Coming off from the River Furno, you have first 25 Fa. then 30, then 18. Ground about Cape Verga is all little Stones among a red Sand.

From Cape Roxo to Sierra Leon you go S.S.W. and S.W. by S. in 19 to 20 Fa. On the out fide of Baxos de St. Pedro; and from 19 Fa. you go fouthwesterly, having 10 to 11 Fa. not less When you come to 12 or 13 Fa. you know you are past St. Pedro's Shoal; and then you run towards the shore S.E. to 19 or 20 Fa. and then to 7 and 8 Fa. This shoaling to 7 and 8 Fa. is occasion'd by a Tail shooting out from an Island, which when you are past, 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 Point which appears higher than the Main, and the Trees show as if they stood in the Water: From thence there runs a Flat to seaward, you may go over it in 3 to 4 Fa. but before you have 7 to 11 Fa. you must full no nearer than due S for tho the Point lies S E. from you, yet 'tis dangerous with the fouthern Courle to come too near it.

Soon after this you pals this Point; and S.E. from Cape Verga lie the high Islands of Delos, or more properly Illes de Las, which thew as if joyn'd to the Main; but you may fail between them and the Main coming from seaward; only bring the highest of them, which is Tamara, S.S.E. and S.E. by S. from you; and then run right upon it, within a Bow-shot of the thore: Then go by the N. fide of it towards the Main in 4 to 5 Fa till the inmost Island bears S. by E. from you, where you will see the Rippling right before it. Then you run the infide of it quite thro'; the nearer the Island, the Water is deepest: The Island is low and cover'd with Trees, and a good Road for Ships on the N.E. fide.

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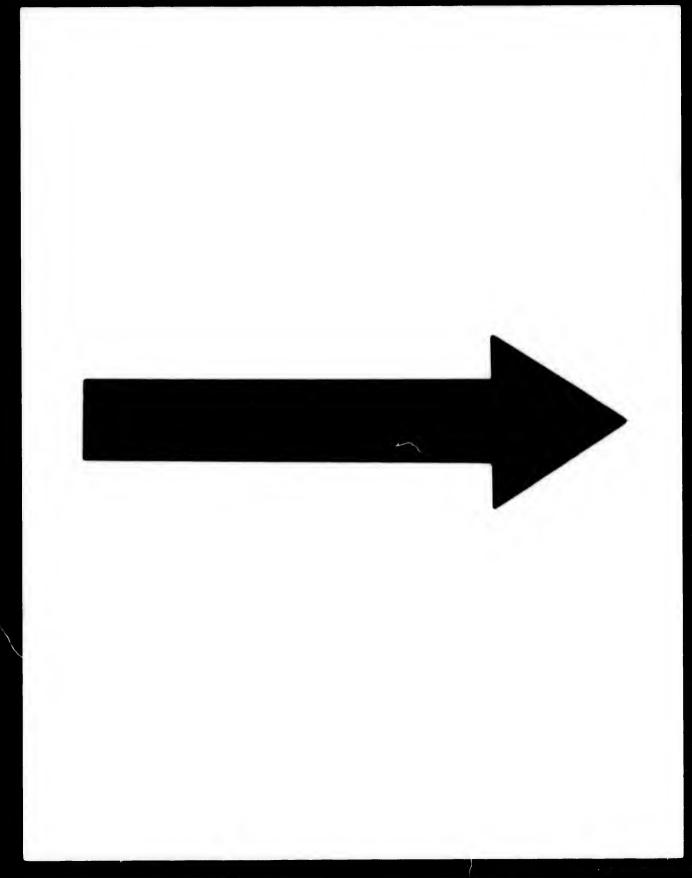
In coming out here, you should be careful to watch for the Land-breeze, for then you keep Mid Channel, and go out afore the Wind: but if you miss the Land-breeze and go out with the Sca-breeze, you must be careful to avoid the N. Shoals in turning, and come no nearer the Shore than 6 to 7 Fa.

If you are bound to the fouthward, take care of the Shoals off Sherburg River. When you are to the westward of Cape Szerra Leon, keep your Lead going, and come no nearer than 11 to 12 Fa.

There are also several Shoals off of the Islands, call'd the Bona's: these Islands begin to the S.W. of Sierra Leon, and the Shoals still farther W. they are also call'd the Bassaws Shoals, and run a great way out to Sea rounding and hollow, so that you must stand off quite out of sight of the Land to go clear of them. In this Course you will meet with several Overfalls and Whelmings of the Water; at one Cast you will have 11 to 12 Fa. and the next 5 to 6, then deep again, and so alternately many times. To go clear of these Shoals, steer away S.S.W. till you have no Soundings; and then steer away parallel with the Shore, till you find Ground again in 30 to 40 Fa. and then make the Land again as soon as you please, keeping in no less than 11 to 13 Fa. by your Lead. Thus you will be past the Bona Shoals, or the Bassaws.

N.B. There is a great Sand, or Shoal, lies off of this Coaft, between 20 and 30 Ls from the Shore W.N.W. 'tis a hard Sand, and lies N.W. and S.E. in length 30 to 40 Ls. and from 12 to 14 Ls wide. Towards the S.E. Point of it 'tis very floal, and fometimes dry at low Water, and therefore it is to be taken great care of; all the N. and W. part has 18 to 20 and 22 Fa. so that there is no Danger there.

If you are not bound into Sierra Leon, but would go forward upon the Coast to Cape Mount, which is the next Cape, take care to come to Lat. 6. 37. then you are in the height of the Cape, and may stand in for the Shore; but be mindful to keep your Lead going.



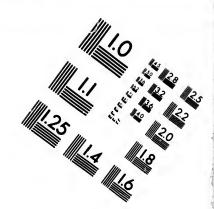
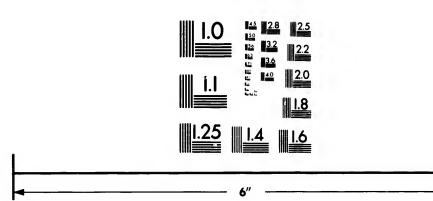
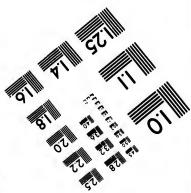


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There are feveral Places on this Coast beyond Sirra Leon and Cape Mount, such as St. Anne, Furnado, Gamboas River, Madra Bomba, and the River Cores, call'd by our Sailors Sherbro River.

Within the Island Bonas, or Buonas, you see upon the Main a Pico or Hill, that seems of a monstrous height, and cover'd with Clouds, so that you seldom can see the top; 'tis a good Sea-mark for this part of the Coast, which is very difficult.

S. by E. from Sierra Leon lies Cape St. Anne, being the N.W. Point of the Island of St. Anne. This Island is a long narrow Slip of Land. stretching E. by S. and W. by N. near 80 miles in length: the Channel between it and the Land is uncertain, and in some places has Water enough; but in a place which they call the Pass, there is a Bar quite over the Passage, on which there is not above 10 Foot at low Water: And as there is but very little Tide there, it cannot be 3 Fa. at high Water. In sailing thro' here, you must take a Pilot, and there are English Pilots to be had at the Factory at Serraloon.

This Passage is call'd the Furno of St. Anne, from a Point and Creek (with a Negro Town) on the Shore, call'd Furno. There are abundance of Creeks and small Rivers, which fall in from the Shore in the Faring Way or Passage: the largest are the Gamboa, the Madra Bomba, and the Sherbere, or Sherbro Ri-

ver, which is otherwife the River Cores.

The River Gamboa is navigable for small Crast 30 to 40 mile up the Stream, to an Indian Town call'd Rancho, 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 House upon St. Anne's Island, call'd Lembermans, or at Sherbro.

The Madra Bomba is navigable also about 30 miles, and there is a Portuguese Factory within it; but you must take Pi-

lots to go up.

If you come from the westward on the off side of the Isle of St. Aune, and are bound into Sherbro, keep the two Points of 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 Direction, or do not find it practicable, as the Wind may stand, make a Signal, and the Factory will send off a Pilot to assist you.

The Ground in the Haven of Sherbro is very shifting and uncertain: the shoalest place is generally 2; to 3 Fa. but you would do well to found it first with a Boat, and take a Pilot too. The Tide of Ebb runs so sharp, and the Water salls so soon, that it is not advisable to go in with an Ebb Tide: The Flood also runs very strong, but then the Danger is the less; for if you should touch, you will be off again immediately.

When you are in, you may anchor where you please; but generally the Ships run up to the Mouth of the Madra Bomba, which comes into the same River, and where is the chief 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 Depth of Water sufficient; and with

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The River Mount at the Entrance has not above 7 to 8 Foot at low Water. The Sea breaks violently upon the Bar, especially when the Souths blow, which always come off the Sea; but when you are in, the Water is deeper and smooth: The Shore upon the Coast is steep too, for you have 15 to 17 and 20 Fa. close to the Shore.

There is a Town call'd Chouca 30 Ls up this River, where the Europeans find very good Trade; and therefore their Sloops go up as far as that Place, to load and bring Slaves

down to the Ships.

The Cape is the eastward Point of the River, and bears the fame Name (Cape Mount) as 'tis suppos'd, because there are

two very high Mounts close to the Cape.

There is a very good Road without the Capes, under the Lee of the W. Point of the River: Keep the Point of the Cape bearing S. and S. by E. from you; there you have the best 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 Scason and fair Weather; but when the Travadoes and Souths blow hard, 'tis best to take more distance, and ride in to to 15 Fa. for here goes a great Sea when those Winds blow: Therefore bring the Pitch of the Cape due S. from you when you anchor.

From Cape Mount to the River St. Paul, or Cape Monserado, which is the eastermost Point of that River, the Course is S.E. by E. 12 Ls. The River St. Paul is but a small River; yet in the rainy Months, which are from May 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 in 6 to

16 Fa. as near the Shore as you pleafe.

During these Months there are frequent Travadoes and Storms, and the Sea goes Mountains high close to the Shore, fo that it is not without extreme Hazard that Ships bear the Sea; and they find it very difficult also to get about to the fouthward. Nor is there any landing here in those Months, without the utmost danger of overletting.

From the River of St. Paul to Cape Monserado, or Mefurado, the Land forms a little Bight, being flat 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 Sea, and secures you from a Wind off Sea.

From this Cape the whole Country is a Wood or Forest to St. Mary's, and is call'd the Forest of St. Mary's; and from thence to Barracope 'tis very full of Trees, which are always green: The Course is S.E. by E. dist. 7 Ls. Among the Trees are several Negro Towns, and some Trade, but not

From Barracope to the River Junk is 7 Ls, the same Course exactly, and the same kind of Coast, the Land full of Negro Villages and Clumps of Trees: You may wood and water any where upon all this Coast, if the Souths do not blow; but if they do, there is no bearing the Surge of the Sea upon the St. Anne, and are bound into Sherbro, keep the two Points of 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 Direction, or do not find it practicable, as the Wind may stand, make a Signal, and the Factory will fend off a Pilot to assist you.

The Ground in the Haven of Sherbro is very shifting and uncertain: the shoalest place is generally $2 + to_3$ Fa. but you would do well to found it first with a Boat, and take a Pilot too. The Tide of Ebb runs so sharp, and the Water salls so soon, that it is not advisable to go in with an Ebb Tide: The Flood also runs very strong, but then the Danger is the less; for

if you should touch, you will be off again immediately.

When you are in, you may anchor where you please; but generally the Ships run up to the Mouth of the Madra Bomba, which comes into the same 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 sufficient; and with Sloops and Boats you may go trading up the River a great way on both sides.

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 same at Sherbro.

N. 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 shore: but 'tis best to sound the Depth and believe your Lead, rather than trust to them, for they are often treacherous and always ignorant. You may have plenty of all necessary Resreshments and Provisions here, especially Rice: and the Navigation is the more useful to be known, that the Sloops may go up from the Ships to setch those Provisions.

As the shore now falls off to the E. the Course upon all this Coast alters very much. From the River of Sherbro, and the Island of St. Anne to Cape Mount is 14 Ls, the Course E. and E. by S.

Between these Capes are several small Rivers which come into the Sea; and some of them are navigable for small Vessels, Boats and Sloops, such 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 begins that which the Sailors call the Grain Coast.

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 must take care that it be when the Souths (as they call them) do not blow; but if it be the Season for those Winds, they make a great Sea, and you must keep farther off, at least in 13 to 14 Fa. the Point of the Cape bearing S.S.E. from you.

N. B. The Scason for those Winds to blow here, which they call the Souths, is from May to October inclusive and exclusive.

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From the River of St. Paul to Cape Monserado, or Mefurado, the Land forms a little Bight, being flat 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 Sea, and secures you from a Wind off Sea.

From this Cape the whole Country is a Wood or Forest to St. Mary's, and is call'd the Forest of St. Mary's; and from thence to Barracope 'tis very full of Trees, which are always green: The Course is S.E. by E. dill. 7 Ls. Among the Trees are several Negro Towns, and some Trade, but not

much.

From Barracope to the River Junk is 7 Ls, the same Course exactly, and the same kind of Coast, the Land sull of Negro Villages and Clumps of Trees: You may wood and water any where upon all this Coast, 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 easy in 12 Fa. the Mouth of the River bearing N.E. from you; and then the Indraft of the River a little abates the Swell of the Sea.

This River Junk is a furious Current, by reason of its coming from a mountainous Country: For which reason there is little Trade or Navigation in it, nor is there above 8 Foot Water in it.

On the S. Point are some 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 11 to 13 Fa. or keep a Grove of high Trees, which stand E.S.E. from the River, bearing due S. from you, there you may anchor in 10 Fa. fair riding

From the Junk to the River Sessors is 18 to 20 Ls, the Course S.E. by S. There are no Rocks on all this Coast before you come to the Junk: But 2 Ls. to the E. of the Trees mention'd before, lie feveral Rocks, some half a Mile, some a quarter from the Shore. On all the Coast from the Junk to the Sestors, you may anchor in the open Sea near the Shore,

in 16 to 20 Fa.

Between the Junk and the Seffors lies the River St. John, S.E. by E. from the Junk, dist. 11 to 12 Ls. There is a Riss 2 Ls from the Junk, which runs off 3 Mile into the Sea; 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. John, in 10 Fa. good holding Ground.

Here are several Rocks on this Shore, which lie some under Water, some above: Give the Land a good Birth. Here you will see a Mountain within the Land, which makes at Sea like a Bow. Here is a Trading Place call'd Tabee Canee, where many Negroes live: And here begins the first Land of the Country call'd the Grain Coast. Here the Rocks feem to ceale,

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and the Land begins to appear low and plain, which reaches to the River Seftors; but there is no good anchor ground, 'tis a foul Strand, stony at bottom, and very uneven: The Land is all covered with Trees, and seems to be full of Inhabitants, (Negroes) fo that here is much Traffick. If you are bound castward, 'tis a bold Coast, 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 Sestors 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 Rocks lying to the castward of the River's Mouth, which shoots out a L into the Sea, and must be avoided.

Also at the Entrance into the River lies a Rock, but above Water and plain to be seen; you leave it on the Starboard side

as you go in.

N.B. You cannot go far into this River with your Ship, only with Shallops and finall Boats; the Ships go about 3 Ls.

West of the Sessor's 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 foutherly from the Seffors is a great Riff which runs S.W. from the Shore 2 Ls into the Sca. The River has a strong Current, but not raging; the Channel being deep makes the Water still: The Ships that go in, anchor at the King's Village.

N.B. If you ride off here in the open Sea, you must obferve your Times for going on Shore thus: Go on Shore in the Afternoon with the Sea-breeze, and come off the

next Morning with the Land-breeze.

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 Seftos, is call'd Cape Baxos, or the Low Cape. E. of this Cape lie many dangerous Rocks, several of them under Water: They are so much in the Fair Way of the trading Ships on this Coast, that ignorant People run great hazard in failing near them.

Farther E. 2 Ls from the River Seflos, is the Island Palmas, call'd fo from an exceeding large Palm Tree which stands fingly upon it, and is a Sea Mark to know it by. it is an Island, but there is no passing between it and the Main. failing along all this Coast, you must 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 Island of Palmas and Cape Formofa lie two great Rocks call'd the Cagados; and from them lies a great Riff to feaward, which is the reafon why you should keep out

in 30 Fa.

Under Formosa 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. Bulla or Bullow is not a River, but a Place of Trade: In the

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groes cut the Wood, and bring it to your Boats very cheap; but if they do not, you must not trust your Men a shore to fetch it. From Bassa to Dasso it is 3 Ls, and to Cape Zino, or Swino 6 Ls, the Course mostly S.E. by E. Here are two Villages of Negroes, viz. Battow and Zino; between them is a small River, fit for no Veffel higger than a Yawl or a Canoe. You will know Cape Zino 1 the Breakers upon the E. fide of it, where lie some Rocks o in the Sea, as well under Water as above, and by a very high Tree just upon the Point of the Cape. About 2 Ls from the Shore you have an apparent Current upon this Coast, 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 little to the westward before the Town of Battow are three or four very great Rocks, the outermost makes like a Ship's Sail; they lie out near 2 Miles from the Shore, and diffant from one another.

If you would anchor before Battow, bring the high Grounds about the Town to the N.E. from you, and the Rock which lies 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 Coast is in the open Sea. Here is no Shelter of

Bays or Harbours.

Half a Leag. E. from Battow lie two Rocks more, quite under Water, very dangerous; but you may fee the Breach of the Sca upon them above a L. off at Sca. These are the Breakers named above, and which you will know the Cape by.

Also N.W. from Battow lie two more great funk Rocks, no less 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 steep Point, which the Sea breaks upon, and comes rolling on with an unusual Noise, as if the Ground was rocky and uneven, but upon sounding 'tis all sound a clear Sand. Within this Point comes in the River Zino, which is the largest River hereabout: There is near 2 Fa. Water in the Entrance or Bar, but within you have good anchoring in 8 Fa. so that this River is a good Harbour, if your Ship does not draw above to Foot Water. In this River you may have very good Water, but you must buy it.

If you chuse 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. castward from the Black Point is a Place call'd Citrie, or Setry, 'tis a Negroe Town: there are two of the Name, viz. Little Setry which is the first, and Great Setry, 5 Ls sarther: The Negroes and our Sailors call them Pickinini or Piquino Setry, and Grande Setry; and our Pilot Books, for what Reason we know not, call it Krow and Crue, and Setry Crew. The first, or Little Setry is known by a great Cape or Promontory running far out with three black Points, also by two great Rocks, one larger than the other, and standing far into the Sea. They are clean and steep, and you may run close by them without any danger.

Here is a River, and a Riff of Rocks runs out from the W. Point of it: and the Town stands a little to the costward of

he many dangerous Rocks, several of them under Water: They are so much in the Fair Way of the trading Ships on this Coast, that ignorant People run great hazard in sailing near them.

Farther E. 2 Ls from the River Seflos, is the Island Palmas, call'd fo from an exceeding large Palm Tree which stands singly upon it, and is a Sea Mark to know it by. It is an Island, but there is no passing between it and the Main. In sailing along all this Coast, you must 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 Island of Palmas and Cape Formosa lie two great Rocks call'd the Cagados; and from them lies a great Riss to seaward, which is the reason why you should keep out

in 30 Fa.

Under Formosa 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. Basta or Bastow is not a River, but a Place of Trade: In the Road before it you have 20 to 23 Fa. tolerably good Ground. Bring the Trees about Sanwin N. or N. by W. and a high Hill behind Bastow E. by N. and the great Cliff just before the Town due E. then you are in the best of the Road; but if you lie within half a L. of the Shore, the Ground is foul and rocky.

If you go a little farther E. you will have two Conveniences. (1.) You will have better Ground to anchor in, being a firm hard Sand in 15 to 18 Fa. (2.) You lie between two or three trading Places; for 2 Ls to the eastward are two other Towns, Daffo and Salerno; and being in the midway, the Natives will come off to you from all those Towns in

their Canoes.

Between Daffo and Salerno, which are but a L asunder, you will see a very high Tree (among many lesser) which has two huge spreading 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.

Eastward as you ride you see a small Point of Land; under the Point comes in a River they call Master John, the Portuguese call it Juan; and 2 Ls farther E. comes in the River Genovesos not navigable for Ships: But the Negroes come out of both in their Canoes to trade for their Mellegetta, and the Ships ride in the Offing; but you must not come nearer

than 15 Fa.

There is a great Cluster 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 see the Opening.

Half a Leag. 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 Sea breaks violently upon them, and makes a terrible noise. Sloops and Shallops usually go up this River to setch Wood and Water, which is very good; and the Ne-

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About 3 Ls. castward from the Black Point is a Place call'd Citrie, or Setry, 'tis a Negroe Town: there are two of the Name, viz. Little Setry which is the first, and Great Setry, 5 Ls farther: The Negroes and our Sailors call them Pickinini or Piquino Setry, and Grande Setry; and our Pilot Books, for what Reason we know not, call it Krow and Crue, and Setry Crew. The first, or Little Setry is known by a great Cape or Promontory run ing far out with three black Points, also by two great Rocks, one larger than the other, and standing far into the Sea. They are clean and steep, and you may run close by them without any danger.

Here is a River, and a Riff of Rocks runs out from the W. Point of it; and the Town stands a little to the eastward of the Riff near the Point: It is the chief Place for Shipping and Trade on all the Grain Coast, the Land within is very high, and appears in many round Hummocks all the way, from the

one Setry to the other.

If you would anchor upon this Coast, bring the Rocks off Setry to bear N.W. from you, and the Point call'd Wappo or Wapen 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 lose your Anchors.

From hence to the *Grand Setry* is 5 Ls, the Course E.S.E. You will see upon the Land near this Point several high Trees, naked without Branches, like Poles or Masts. Bring the River N. and N. by E. from you, and the high Trees N.E. by N.

then you may anchor in 25 to 26 Fa.

From Grand Setry to Cape Palmas the Course is E.S.E. and S.E. by E. 22 Ls. This Coast has some little Creeks or Rivers 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 Sea a L or two from the Shore, where you have no Rocks or Dangers but what are seen, it needs no more particular Description.

There is a great flat Rock off of Wappo, about 3 Ls to the W. the like is not feen on the Coast of Guinea; and the Coast from it is known by the Trees, which are shaped like Umbrellas or Bee-hives, as if they were cut by hand. This is the best place for the Mellegetta Trade; which makes the Ships always stop here, and anchor under that Lee of that great Rock.

N.B. At Cape Palmas you will find, in rounding the Point, there is a strong Current which sets 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 Course should be E.N.E. but you must steer N.E. by N. or you will not be able to keep the Coast in fight.

There

There is a long Riff off of Cape Palmas, which runs outa Lat least into the Sea, and you must give it a good Birth: The Cape is known by three round Hills or Hummocks upon the very Point, and farther within by a round Clump of Palm Trees; they are feen a great way off at Sea. If you come from the western Coast, you must steer S.E. by E. to get round

the Cape and the Riss.

When you are past the Riff, you steer in again E.S.E. for the Shore, till you find 21 to 28 Fa and then you come off of Sandy Bay: But westward, and before you come to Cape Palmas, lies the River Gojoven, and a Town call'd Garway; you will know it by a little Hill, and 7 or 8 Palm Trees upon it just on the Strand. There is also a great Rock lies off of the Shore, and the Sea breaks upon it with great Violence

near a L from Shore.

If you would come to an anchor here, bring the Palm Trees on the little Hill to bear N. by E. and N.N.E. and the steep Point N by E then you may ride in 20 to 21 Fa. about a L from the Shore: The great Riff lies castward of Garway River near 3 Ls, and 1 \(\frac{1}{2}\) L. Off of Cape Palmas: you have a very uneven Shore; first the Current in passing between the Riff and the Cape runs with a prodigious force, the Riff casting the Stream inward: Secondly, The Riff lies under Water in 15 to 16 Fa. but rearer it lies to strangely foul and uncertain, that there is nothing to be done; it will be 12 Fa. at one Cast, and 20 at the next: Therefore when you find the Shoal by your Lead, fleer no farther castward than S.E. till you get into 30 and 40 Fa. when you will find it fall deep at once to 65 fa. and foon after to 100, and then to no Ground at 200 Fa

A little beyond this dangerous Shore is the End of the Grain Coast; the last Negroe Town is call'd Robes, where Ships ride for Trade, tho at great hazard.

It is proper to observe of the Grain Coast in general,

That from January to the middle of May, the Weather is moderate; and that notwithstanding the Lat. of from 4 Deg. 20 Mm. to 5 Deg. 37 Min. the Heats are not excessive, the Air is clear, the Breezes cool, and the Winds generally blow

wefferly, loft Gales.

From the middle of May to the middle of January, the Souths begin to blow, and continue within the Points of due S. and S.W. blowing conflantly off Sea with great Violence, and making a terrible Surge upon the Shore. Also they are very fqually, and have frequent Travadoes and Gusts; by which those Ships that ride in the open Sea are in great danger of foundring at an anchor, or driving a-shore.

N. B. Those Months are call'd the rainy Months, and are generally attended with great and constant Rains, Light-

ning and Thunder.

E.N.E. from Cape Palmas comes in a little River call'd Cavalia, dift. 10 Ls. This is the first Place of Trade on the Ivory or Tooth Coast; it is but a small River, but opens very wide into the Sea. As you come from the westward, you will open the Mouth of it, when it bears N. westerly from

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Shore in 13 to 15 Fa. good Ground; but come not near the low Point that hes eaflerly, there its very foul.

E.N.E. from Berby 4 Ls lies Druin, a Town of feme good Traffick: 'Tis easily known, for that whereas almost all the Coast for 20 Ls is even and low; here, for near 10 Miles before you come to Druin, it is all hilly and craggy, full of Hummocks, high, and very uneven; higher than any where between this and Cape Mount. There is a River here, and three or four Towns, where our Ships come to trade for Teeth, and the Negroes bring them in Canoes far within that River: But take care not to go on Shore, for they have murdered many of all the European Nations that come to trade with them.

The Negroe Towns are known by a Thicket of Trees always about them; and wherever you fee those Trees, you may anchor as you find the Ground, and make Signals to the Negroes, who will come off to trade.

Druin is known by three or four Trees 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 therest. Bring that Hill and the Tree to bear N.W. by N. from you, and the three first Trees (bearing easterly from that Tree) N.N.W. and you may ride in good Ground, and 14 to 15 Fa. There are Marks for other Bearings, but this is sufficient.

There are some Rocks here, but they lie all close to the Shore, so that there is nothing in your way; for your Course is all along at 1 L dist. from the Shore.

From Druin to the Red Land, or Red Cliffs, is 3 Ls, E.by N. The Red Cliffs is a Name given to a long Tract of Land upon the Coast, and therefore is more properly call'd the Red Land; it holds for about 7 Ls. There is a great Trade for Teeth upon that Coast, which occasions many Ships to stop and auchor there; so that 'tis needful to know the Place very well. The first of these Rocks or Cliss makes with a great white Spot in it. There is a River comes in among them, call'd St. Andrew, where there is good Traslick, but no Ships go up there, only Negro Canoes come down with Teeth to sell to our People.

The Shore here differs extremely from all the rest of the Coast; for it is so slat and shoal, that you have but 10 to 12 Fa. at 2 Ls. dist. from the Shore, and you may anchor close under the Point of St. Andrew, in 3 Fa. You may wood and water here, but you will get nothing to eat. The River parts into two within a L from its Mouth, but both so shallow, that even Canoes cannot go far up in them, except in the rainy Scasons.

You may anchor under any of the Red Cliffs, in 7 to 8 Fa. The Coast is all even, and the Fair Way lies under Shore in 5 to 6 Fa. passing the River Frisco, with the Negroe Towns Tabaterra, Domera, and others, till you come to Cape Lehon.

From Druin to Lehou is 20 Ls E. and E. by S. In the way is the River Cutro, or Catreboe, and Catelahoe, and other small places, but none of Note till Calo la hou; 'tis known by

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ning and Thunder.

E.N.E. from Cape Palmas comes in a little River call'd Cawalia, dift. 10 Ls. This is the first Place of Trade on the Frony or Tooth Coast; it is but a small River, but opens very wide into the Sea. As you come from the westward, you will open the Mouth of it, when it bears N. westerly from you: It goes in N by E. between two steep Capes, and there lies a great Rock due E. from the Entrance; and E. from the Rock 5 Ls lies a stat Point, to be known by a high naked Tree upon it, like a Mast of a Ship.

One L from the Mouth of Cavalia due E. lies Growa, a Negree Town, with 5 or 6 great Rocks just before it, and by which it is known: feveral of them lie under Water, and are therefore dangerous; but the Sea breaking upon them, discovers where they are, and that is the Mark to know the Town by. Also there is good riding beyond those Rocks in

17 to 18 Fa.

From Growa the Coast draws in to the northward, and trends away E.N.E. to another Negroe Town call'd Taba: the Coast is good even Land, only a little double toward Taba it self: There is very good anchoring all along in the Fair Way, keeping 2 or 3 Gun-shot from the Shore in 20 to 22 Fa. In the way you will see two little Mountains like Sugar Loaves close together, and on the very Edge of the Strand, the farthest is the highest: To the eastward of those Hills is a low slat Point running out into the Sea, with a Tree on the very Pitch of the Point, and two or three Rocks close to it on the Strand. The Negroe Village Tabo lies behind some Trees which appear just beyond the Point.

There is good anchoring before Tabo; bring the flat Point N.E. and N.E. by N. and the Rock on the Strand N.N.E. from you; and then you are in the best of the Road, with 21 to

22 Fa. very good holding Ground.

N.E from Tabo lies Thano in a Bight, where there is clean Ground and good anchoring. The Fair Way all along this Shore is keeping about a L. off; but at Thuho you run into a Bight, and anchor in 13 to 14 Fa. good Clay-ground, just before the Village.

E. by N. from *Thaho* 6 Ls is another Town, call'd *Berby*, lying behind a Point, easterly from the Hills; for all the Shore is mountainous: You may anchor here also at a L from the

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Spot in it. There is a River comes in among them, call'd 37. Andrew, where there is good Traffick, but no Ships go up there, only Negro Canoes come down with Teeth to fell to our People.

The Shore here differs extremely from all the rest of the Coast; for it is so slat and shoal, that you have but 10 to 12 Fa. at 2 Ls. dist, from the Shore, and you may anchor close under the Point of St. Androve, in 3 Fa. You may wood and water here, but you will get nothing to eat. The River parts into two within a L from its Mouth, but both so shallow, that even Canoes cannot go far up in them, except in the rainy Scasons.

You may anchor under any of the Red Cliffs, in 7 to 8 Fa. The Coast is all even, and the Fair Way lies under Shore in 5 to 6 Fa. passing the River Frisco, with the Negroe Towns Tabaterra, Domera, and others, till you come to Cape

Lehou.

From Druin to Lebou is 20 Ls E. and E. by S. In the way is the River Cutro, or Catreboe, and Catelaboe, and other finall places, but none of Note till Cabo la bou; 'tis known by a very high Tree flanding to the E. of it with a forked Top, one Branch flanding E. the other W. The Canoes come on board you here from the River Catreboe, and the Cape it felf, and bring Teeth in great Quantities: but you must beware of them, for they are all Thieves and Murderers.

N. B. This cape is the eastermost Land of the Tooh Coast, and here begins the *Quaqua* Coast. N. B. Off of this Coast the Current sets gently, not above a mile an hour, to the N.E. by E. N. B. You must not venture near this Shore in thick hazy Weather, for you have no Soundings, but may be upon the Land before you are aware: you will have no Ground at 2 Ls from the Shore, and 45 Fa. within

1 & L of the Shore.

You may ride under Cape la hou as near as you please in 8 to 14 Fa. strong holding Ground. E. from La hou 5 Ls lies Jaco la hou; and 8 Ls beyond that, in the same Course, is a place call'd the Bottomless Pit, from the Depth being so great, that you can find no Bottom with the longest Line: some say they have cast 600 Fa. and sound the Lead draw. 'Tis also 50 Fa. deep within Musket-shot of the Main; and when you come to that Depth, you must anchor as soon as you can, lest you run right ashore; but 'tis 35 Fa in one place 2 miles from the Shore, and there is the best riding. E. from Jaco la hou is Corbe lahou, and one L short is a little Creek, which the Negroes call Jackee Jackee; of no Note, but that it is the first place where you begin to trade for Gold, tho the Gold Coast is not yet, and they do not get much; however our Ships generally anchor here for the sake of it.

At Corbe la hou the Land is so steep, that within a Stone's cast of the Shore you have 50 Fa. It lies due E. from Jaco la hou dist. 16 Ls; and 17 Ls from Corbe la hou still E. lies a little River call'd the Costa, with a Rock on the W. Point, being the first Rock on all the Quagua Coast.

Between these lies a Trading Town call'd Dorpin, 5 Ls E. of Corbe la hou; and at the E. and of the Well, that is what

Sailing Directions for the Western

is call'd the Bottomless Pit, you ride very near the Shore, and

get Slaves, and some little Gold also.

E. from Cabo la hou 36 Ls, and from Dorpin 15, is Affine, or Afshinie: There are 2 Negro Towns of the same Name, Assine Piquino, and Assine Grandee, they are 2 Ls asunder: At the first begins the Gold Coast, or the Land properly called Gninea; it is low here, but the Woods are very thick and the Trees high, and you see the Negro Hutts as you sail by the Shore. You have very good anchoring off of Assine Piquino, or Little Assine, in 10 to 15 Fa. Water.

To the castward of Little Assine stands a great round Tree, among several Clusters of others not so high; thence you have low Land sor upwards of 2 Ls to the greater Assine, call'd by our Pilots Albine; it stands close to the Water's Edge: off

of this Place you may anchor in 12 Fa.

From this Town, or a little Point just by it, your Course is E.S.E. to Cape *Plaine* 10 Ls, a large Cape, with a Riff of Rocks running out from it. When you come in from the Sea, and the Cape bears with you due S. and N. then be sure to keep off in 14 Fa. at least, for you cannot anchor nearer.

From Affine to Cape St. Apollonia is 18 Ls. There are feveral Villages between, as Batto la beu, Tebbo Boggio, Sc. and the River Cobra, of which the Cape is the eaftermost Point: From all these the Negroes come off to you in Boats,

and bring you Provisions, and some Gold.

St. Apollonia is a high Cape, and makes at Sea in 3 round Hummocks; the middlemost very high: they may be seen a great way, especially westward. There is no good anchoring nearer this Cape than 15 Fa. the Ground being very rocky and toul.

From Cape St. Apollonia the Coast trends into a Bight, in which is the Town of Axime or Atzin: the Course is E. by S. 5 Ls; the Land is low, and you may run along in 8 Fa. but must come to an Anchor no nearer than in 16, for the Ground is very soul. Here is the first Factory and Fort belonging to the Europeans; possess but Dutch. There is a River here, but

tis of no use in Navigation.

From the Town of Axime to Cape 3 Points, or de Tres Puntas, the Courle is E. by S. This is by observation to Ls; tho the Pilots say 'tis but 6 Ls, and the Course E.S. I take the first to be the most exact Account. This Cape derives its Name from its Appearance, for it makes in 3 Points into the Sea. Near this Point the Subjects of the King of Prussia have a Factory and Fort, on a Point formerly call'd Unipacke, 2 Ls short of the Cape Three Points: The Prussians by their Fort command the Watering place at Three Points; the Water is good indeed, the best on all the Coast, but very hazardous in the rainy Months, and when the Souths blow, which is several Months in the Summer.

If you would anchor here, bring the Tree which stands on the fouthermost or middlemost Point E.S.E. of you, and the *Prussian* Castle N.E. by N. and you may anchor in 19 Fa. pret-

ty good Ground.

From Cape Three Points to Aquida is 2 Ls E. by N. here the Pruffian Fort was first built, but the Dutch got it from them, and made them go to the other side of the Cape. This place may be known by a Point which stands out a little to the

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a time; 'tis an excellent Road, the Bight being almost as good as a Harbour.

E.N.E. from Secunda 3 Ls. the River St. John comes in, on the W. Point of which is a Village call'd Suma, or Shuma: Here is also a Dutch Fort and Factory. Here you ride off the Castle E.S.E. from the little Fort, and have 7 to 8 Fa. having the outermost Rock S.W. and S.W. by S.

On most of the Ports on this Coast, a N.E. by E. and E.N.E. Moon makes full Sea.

From Suma it is 3 Ls to Akitaki, otherwise Little Commenda: There are many finall places between, such as Low Strand, the Red Lands, Cotobery, Fishers Village, Aroby, Ballast Hook, and several others; at most of which there is some Business.

There is a Riff of Rocks in the Fair Way of this Coast, call'd the Black Riff, which the Sea breaks upon very violently: the Rocks lie about Cannon-shot from the Shore, most of them under Water, and therefore very hazardous.

From Commenda to Ampenie is 12 L E.N.E. Your Mark for all this Coast is the great Mountain call'd Great Commenda, which stands N. far within Land, but is seen near 20 Ls off at Sea: bring this Hill due N. from you, coming in from the Sea, then you are sure you are right thwart of Little Commenda; you see it also all the way from Atxum to Cape Corse. To anchor before Little Commenda, bring the Town to bear N.W. from you; and being in 6 Fa. run a little to the eastward, and there anchor, you have clean sandy Ground.

From Ampenie there runs out a Riff not far to seaward, but rather along with the Shore: Within it is good anchoring for small Vessels in 4 to 5 Fa. But if you come from the westward, or from Cape three Points, especially also in thic! Weather, you must not run within the Riss, but keep out in 15 to 16 Fa. and if it be dark, heave your Lead; if you find red Sand and 15 Fa. Water, and hear the Sea breaking upon the Rocks, sail not immediately to come to an anchor, lest you are driven past your Port, for the Current sets here very strong to the eastward.

Easterly from Commenda, and from Ampenie, E.N.E. 3 Ls, stands the Castle de Minas, or of St. George; 'tis situated on a small Crook of the River Benja. Easterly from the Castle is a little Fort call'd St. Iago: Here lies the Road, dist. from the Castle about a Cable's length and half, there you have 8 Fa. good Riding.

This is the Metrapolitan Factory of the Dutch, and where their Governor refides: There are 2 Cassles which overlook one another, and both command the Ships in the Road. There are several little places on the Coast, between Commenda and the Castle of Minas, which we have not nam'd, viz. Mina, Terra Pequina, Monte Fotu: the Coast is sull of Rocks and Riffs all the way.

From Castle Minas E. by N. 2. Ls, stands the principal English Castle and Factory call'd Cape Corfe, or as we call it Cape Coast: it makes from the west like a Hill close to the Water's edge; 'tis seated on a Rock called Taborough, which lies far out into the Sea N.W. by N. and you have 8 Fa. just by it, with good riding under the Guns of the Castle. The Ground on all the Coast is good holding Sand, so that if you

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From Cape Three Points to Dicky's Cove, or Dick's Cove, is 5 Ls; and from Aguida it is 3 Ls E.N.E. Here is a Creek or small inlet of the Sea, fit only for small Craft, as Shallops, Long Boats, C_c . In the middle of the Passage in, is a great Heap of Stones, which you must leave on the Larboard side.

Here is a good English Fort, with a large Factory, and

many English Ships go in to load Rice here.

From Dicky's Cove E. by N. it is 2 Ls to Batterow. Here is another Dutch Factory, but no good Fort; it lies on the steep fide of a high Cliff next the Sea: you must not come to an anchor here, but almost a L short, between that and Dicky's Cove, where you have 14 Fa. good Ground, and good Bufiness for the Ships loading Rice.

From Batterow to Ayoba, which is the W. Point of the River Antem, the Course is N.E. by E. and N.E. 9 Ls. are many finall places between, but of finall import, as Poinpone, or Ponde Tagarado, where there is a Point stretching out a great way into the Sea: You cannot ride well before Tagarado, but must run on a little beyond it towards Secunda,

which is 5 Ls.

At the River Antem, or rather at the Point of Ayoba, the Dutch have a Factory with confiderable Traffick: you may come to anchor before it in 14 to 15 Fa. But there are fo many Dangers, and the Ground is 10 foul, that it requires your utmost Care, or you may lose all your Anchors. There is a great Riff on the W. side of Antem; you must take care, and come no nearer to it than 14 to 15 Fa. You will see it by the Breach of the Sea upon it.

From Antem the Course lies E. to Secunda 4 Ls; it lies in a fine clean Bight. Here are 2 Factories, one of English, the other of *Dutch*; which cause much Shipping to ride there at the ca Eaft stands | finall C little I Caftle

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are but fure of your Cables, you need not fear your Anchors. From Cape Corfe to the Danes Hill is 1 mile; 'tis an old Fort that formerly belong'd to the Danes: it is that good Factory, which the English bought from the Danes, and it makes the Capital Fort of Cape Coast. One L E.N.E. is Fred rick's Bay, which was call'd so by the Danes, but 'tis now English.

Here is a very good Road between Fort Nassau and Fort Maur in 7 to 8 Fa. 2 Ls from Cape Maur lies Cormantin, the Course E.N.E. Fort Maur, or Maurice, belongs to the

Dutch.

From Fort Maurice to Anisham is 2 Ls N.E. by E. here is a small Factory belonging to the English: From thence to Animabo is 1 L N.E. by E. and here is a Fort and Factory belonging also to the English: bring the westermost of 4 Hills, which are seen above Cape Corse, to bear N.W. from you, then you may anchor in 7 Fa. good Ground; 'tis a Factory of good Business for Slaves as well as Gold, and many Ships ride here.

From Animabo to Cormantine is 2 Ls E.N.E. 'tis the best Road, as it is the best Country on all the Coast, and was once the chief Factory of the English on all the Gold Coast of Africa. There are 2 good Roads, and you may ride nearer and farther off in the same Road: The English have a very strong For there, which also commands the Road, and protects the Ships that ride there; and therefore the Ships ride for Safety sometimes close under the Guns of the Castle 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 best Negroes were had; and therefore in the West Indies, to this Day, they call the Gold Coast Negroes, Cormantine Negroes: and this is as needful to be known for guiding Pilots and Captains in their Trade, as the Sea-marks are to pilot them into a

Port. N. B. This Road of Cormantine is the best on all this Coast, for the easiness of going in, and of putting to Sea again; which may be done here almost with any Wind. From Cormantine to Tagon, or Dajon, the Course is E. by N. 5 Ls, the Negroes call it Dijon, our People call it Tagn, and the Point under it to the E. they call the Rongh Point, because it is craggy, and full of Rocks and Bushes: and the Road is used chiefly by Fishermen. Between Cormantine and this Point lies Amissen, or Misseren Corner, where there comes in a River, but its useless in Navigation, except for Canoes; neither is there any Riding in the Mouth of it.

From this Point the Shore falls off a little northerly, trending N.E. so that the Course from hence lies N.E. by E. to the Devil's Hill, as the Scamen call it, dist. 2 Ls; itis a prodigious high Mountain close to the Strand; and they call it the Devil's Hill, because they say many have gone up to the top, but none ever return'd: Others give a better reason, because great Travadoes and Gusts of Wind come down from it, by the

Hill intercepting the Clouds.

Under the E. fide of this Mountain comes in a small River, where our Ships get good Water, which makes the Road frequented, notwithstanding the Squauls which come from the Hill: The Road is good in 8 to 9 Fa. on both sides the Devil's Hill; but if you go off into 18 or 20 Fa. 'tis foul, and no good anchoring at all. The Road before this Hill is call'd Mangeo; the Land belongs to the English Factory at Acra.

E.N.E. and E. by N. from Mangoo is Berka, or Berku, but the Sailors call it Barracoo; 'tis to be known at Sea by 2 very high Mountains behind it, whereof one is double at the top with a Saddle: they are almost as high as the Devil's Hill, but full of Trees. Here is a kind of a Haven made by some Rocks,

which lie off in the Sea just before it.

From Barracoo the Coast trends away still northerly, and itis 6 or 7 Ls to Acra, the Course E.N.E. Acra is not a Factory, but a Seat of Factories, being in a Bay, where there are 3 Forts and Factories adjoining to each other, one English, one Dunch, one Danish: The westermost is the English, and here you have a good Road in 7 Fa. good Ground; whereas farther castward it is soul and rocky. Bring the red Spots, which you will see on the rising Land by the Sea-side, to bear due N. from you, there you have the best of the Road.

A little L. W. of Acra is a small River, but no fresh Water: the little hill near it is call'd Cooksbreed, which is a good Sea-

mark, and well known.

N. B. All the way from Acra to Ningo there is no fresh Water to be had. N. B. This is the eastermost part of the Gold Coast, adjoining to the Slave-Coast.

From Acra all the Coast is cover'd with Rocks, so that they are like a Wall or Fortification; no Vessel, no not a Boat, can come on Shore, except where any Creek opens into the Sea.

From Acra the Course is E.N.E. 4 Ls. to Ningo Piquino, as the Portuguese call it; but the Negroes, and our Sailors from them, call it Pikinine Ningo: Thence to a Negro Town call d

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From Puny to Ningo Ground is 3 Ls, and thence to Baya 8 Ls E. and E.N.E. There are many finall places between these two, where the Ships go a flaving, as they call it, and ride generally in the open Sea, sending their Shallops in to wait the Orders of the great Negro James, who directs where they shall ride. These places are Pram Pram, 2 Ls. from Puny, and Agrico, 2 miles from Pram Pram, and Alampo.

All along the Coast before these Towns you may anchor in 8 to 9 Fa. and send your Boats, but come no nearer, because the Ground is soul. Alampo is a good Anchoring-place, in particular; bring Seghill to bear N. by W. a little westerly, then you are off of Alampo a little to the W. The Land is all along from Acra hither full of Palameter Trans

from Acra hither full of Palmette-Trees.

From Baya to the River Volta is E.N.E. 4 Ls; but the Land is all low and marshy, without any Towns or People, till you go up the River.

The Volta is the first River of any long Course on all these

Coasts, from Cape Sierra Leon hither.

You will know the Mouth of the Volta by the fresh Water far off at Sea; for the Channel is so great, and pours down such prodigious Floods or Freshes of Water, that it preserves its Taste a great length into the Sea; it also discolours the Sea Water for many Ls. Moreover, the Marks for the Volta are thus, as you come from the westward, you will see a long Point sull of high Trees stretching W. from the Main, and within the Land a round Hill like a Haycock, and beyond that another.

When you are in the Mouth of the River, you will fee strange Whelmings and Breaches of the Water stretching away castward; these are occasion'd by a very great Rist of Rocks 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 must run over the Mouth of the River in 8 to 9 Fa at a sufficient Distance from those Wheli....gs; and when you come to the E. Shore, the Stream is quiet and smooth, and you will run easily up the River to what place you please.

Needful Observations and Pirections particular to this Coast.

As 'tis already observ'd, that the rainy Seasons begin upon this Coast in January, and hold on till May, attended with Tempests, Hurricanes, Travadoes, and violent Gusts of Wind, it is needful to add, 1. That these Storms and Hurricanes hold the same upon all this Coast from that part noted before to this great River Volta, and farther also, as shall be seen in its place; also that towards the Volta and the Country of Benin, they have also frequent Earthquakes with those Storms, especially with the Travadoes or Hurricanes.

2. The Land-winds feldom blow during those rainy and stormy Seasons, but it blows all off Sea from S.W. S.W. by W.

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From Acra the Course is E.N.E. 4 Ls. to Ningo Piquino, as the Portuguese call it; but the Negroes, and our Sailors from them, call it Pikinine Ningo: Thence to a Negro Town call'd Trimine, where the famous Negro Merchant Captain James, 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 steer without a Helm, or ride without an Anchor; so they call the Road Captain James's Bay. The Course hither is N.E. by N. 2 Ls. This Trimine is call'd falily Tema.

From Trimine to Puny, or Pomperny, is 2 Ls 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 also for Boats, which go in to fetch Slaves and fresh

Water, but not far in.

Sailing Directions for the Coasts of Africa, from the River of Gabon on the Frontiers of

ROM the River Volta the Coast continues to Benin, and first it stretches E. by N. about 2 Ls to
Cape Montego, the Land being low, and the Coast
appearing full of Trees, all along; thence to Cape
St. Paul 3 Ls E. Cape St. Paul is a low Cape also, falling off
with a Tail of dry Sand, into the Sea; and the Land scens to
to be broken and uneven betwixt them, so that the dry Sand
appears like an Island.
From Cape St. Paul the Coast lies N. E. easterly: and at the

From Cape St. Paul the Coast lies N.E. casterly; and at the dist. of 5 Ls lie three or four Hills close together, call'd Quatra Montes: And 2 Ls farther is Cape Baxos, a well known Point to our Traders in Slaves. E.N.E. 5 Ls farther lies a River stopt up with Sand, with some high Trees on its E. side; 'tis call'd the dry River, but in rainy Months it has Water enough.

Then you steer N.E. by E. close by the Shore to Popou, a little Village standing on the Sea-side, dist. from Cape Montego 19 Ls.

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As 'tis already observ'd, that the rainy Seasons begin upon this Coast in January, and hold on till May, attended with Tempests, Hurricanes, Travadoes, and violent Gulls of Wind, it is needful to add, 1. That these Storms and Hurricanes hold the same upon all this Coast from that part noted before to this great River Volta, and farther also, as shall be seen in its place; also that towards the Volta and the Country of Benin, they have also frequent Earthquakes with those Storms, especially with the Travadoes or Hurricanes.

2. The Land-winds feldom blow during those rainy and stormy Scasons, but it blows all off Sca from S.W. S.W. by W. W.S.W. and the easterly and southerly Points; and therefore those Winds are call'd the Souths.

3. The Winds abate in July, and the Rains cease in August; tho the Sea will not be quiet for several Weeks afterward: But in September it clears up quite, and gentle Breezes only succeed, and the greatest Heats are in December, when the Sun is at the southern Tropick.

4. On all these three Coasts they have two different Winds every Day, viz. the Land Breeze beginning early in the Morning and the See Breeze which having at News

ing, and the Sea Breeze which begins at Noon.

f Africa, from the Slave Coast on the River Volta, to he Frontiers of the Country of Loango, exclusive.

ntinues to Beabout 2 Ls to and the Coast thence to Cape also, falling off Land seems to the dry Sand

ly; and at the gether, call'd *Baxos*, a well . 5 Ls farther 1 Trees on its Months it has

e to Popou, a om Cape Mon-

From little *Popou* N. casterly about 4 Ls, stands *Great Popou*: And about 8 Ls N.E. by E. from thence, lies *Whidab* or *Ardra*. The Coast all along between is low Land, with Trees here and there.

There stands three or sour Clusters of Trees 3 Ls westerly from Whidah; the westermost is the largest: one of those Trees is of prodigious height, appearing at a distance like a Tower; and about a L westerly from Whidah, close to the Sea, are two Trees more, with great round Tops, which some call the Two Brothers.

If you would anchor before Whidah, you must bring the two great thick Trees, that stand within the Village N. by E. and N.E. from you; then anchor in 7 or 8 Fa. you will have good hard Sand.

Eastward from hence the Land is like a Forest of Trees, reaching along for a great way upon the Coast, and seen far off at Sea, the Trees growing upon high Grounds.

Sailing Directions for the Western

From Whidah you have a fair Coast, bearing N.E. by E. about 8 Ls to the Cape Lagoa, and 5 Ls more to the Passage call'd the Channel of Lagoa. Here the Tornadoes are very frequent, and may be foreseen by the rising of black Clouds in the W. and S.W. which commonly precede them; which when you see, you should immediately hand all your Sails except your Foresail, which you may keep in the Brails to command your Ship, and run before the Wind, if you find occasion, during the Tornado; for what you get is to windward.

From Lazoa, about a L. westerly, stands a double topt Tree, by which you may know the Coast; and before the River a great Shelf that quite choaks it up, except at the E. side, where you may row in with a small Shallop or Longboat, tho

not without danger of being overset neither.

This Channel alters five or fix times in a Year: For sometimes 'tis deep on the W. side, then on the E. side, and sometimes in the middle; but when at shoalest, you have 7 or 8 Foot Water.

In coming in you must take care that you be not overset by a rolling Sea: Keep to the eastern Shore, whether you come in or go out, because it always breaks very much upon the western Shore; but within there's depth enough for Sloops and Yatchs: Then run along (having on the western side some Rivers, as the Albo, and the Doda) till you come before the City of Caran: From thence the Channel runs E. by S. very broad, and so full of Stakes for Fishers Nets, that you can hardly pass thro' with Sloops, and not above 14 or 15 Foot deep.

Caran is a great Town, encompas'd with double Palisadoes, with Centinels continually watching at each 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 Jahum your Course is E. by S. about 13 Ls. This Town is likewise surrounded with Palisadoes, and the Land thereabouts is broken and overwhelm'd by the Sea; having several small Rivers on the main Coast, and the Sea-side sull of Trees. Your Fair IV ay lies in about two Fa. muddy Ground, and Sand underneath.

From Jabum the Course is E.S.E. about 9 Ls to the River Primeira, which is a wide slat River, the Ground all slime

and muddy, and not navigable but for fmall Boats.

Twelve Ls to the eastward of this River the Land is all Islands and Creeks, and for the most part drown'd, either by the Sea's overflowing, or by the great Rains which always fall there in August and September.

From Primeira the Course is S.E. 11 Ls. to the great River Formosa, or Benin; on the W. side of which you'll see

many finall Rivers making their way to the Sea.

Before the River 'tis flat for above 2 Ls and half over the Channel, having at the highest Flood not above 14 or 15 Foot depth, with muddy Ground, and dangerous.

But your Way in, is on the other fide, close by the S.E. Point, the great Shoal lying then on the Larboard fide: Being in the narrowest 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.

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dition from the River Forcades, and not easily distinguished when you come from seaward, except, as above, by the two Trees on the Point of the former; so that many Pilots have been deceived in running up into it, till they came a ground upon the Shoals; when too late perceiving their Error, the Ships have been lost, and the Men endeavouring to fave themselves have been devoured by the ravenous Negroes, who are all Cannibals upon those Rivers.

S. by E. from this fatal River about 20 Ls is Cape Formofa, the Coast all along low and full of Trees, the Ground muddle coal and support the coast and su

dy, and no good anchoring any where.

The Land on one fide of the Cape stretches N. by E. on the other fide eastward, running into the Gulph among several Islands unknown to us, the Passages between them being im-

practicable, muddy and shoal.

The Cape lies so very low, and as it were even with the Water, that the Trees upon it seem to sland in the Sea, and you see them before you see any Land: But in 15 Fa. you can see neither Trees nor Land, so that you know not where you are, till you are almost on Shore.

There always runs about by the castward of the Cape a very hard Stream of fresh Water, during the Months of July and August; so that those who fail upon this Coast at that time, should come no nearer than 8 Fa. which is about a L from Land: The Ground is so muddy that you can hardly get your Lead out of it, much harder to get your Anchors out; and they will hold no purchase neither, the Mud is so soft tho heavy.

Seven Ls from Cape Formosa E.S.E. lies the River Nov., a little narrow River of no use to Navigation: And castward 5 Ls from thence lies the River St. Ilde Fanza, or Ildephonsa, and 2 Ls and half farther, is the River Juan Dias, running along by the Sea side, just within a narrow Slip of Land not half a Mile broad.

And farther again, about 2 Ls and half, lies the River St. Barbara, or Mea.

From the River Mea 6 Ls casterly lies the River Barabalemo, on whose E side stand two Stakes like Masts of Ships, by which you may know the Place. All these Rivers slow into this opening, S. of the Cape; and sometimes Ships Boats go in for trade, but 'tis very hazardous as well as difficult, because of the Cannibal Negroes. You pass along by them all in 8 Fa. and at the dist. of 2 or 3 Ls from the Shore.

From hence is no manner of Traffick on this whole Coast; for the Ground is so very soul, and the Inhabitants such Monsters, that there is no coming among them.

From thence you come to the River Sombrero, before whole Mouth it is so flat, that you must keep off to leaward, quite

out of fight of Land.

You may run along from Cape Formofa to the River Sombrero, in 8 Fa. Clay Ground; but near the River it breaks 2 Ls off from the Shore, and is flat and shoal 5 Ls more: But there is nothing lost by it; for as the Shore is bad, so the People are worse, and you can have no Business among them; and our Sailors always knock em on the Head when they meet with them.

the Sea-fide full of Trees. Your Fair Way lies in about two Fa. muddy Ground, and Sand underneath.

From Jahum the Course is E.S.E. about 9 Ls to the River Primeira, which is a wide flat River, the Ground all slime

and muddy, and not navigable but for finall Boats. Twelve I.s to the castward of this River the Land is all

Islands and Creeks, and for the most part drown'd, either by the Sea's overflowing, or by the great Rains which always fall there in August and September.

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But your Way in, is on the other fide, close by the S.E. Point, the great Shoal lying then on the Larboard fide: Being in the narrowest 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 also stands on the western Shore of that Bay. There are two other Rivers fall into the great River on that fide; the first you pass by, the second is a confiderable River, and has a deep tho narrow Channel; you may fail up into it 25 Ls: On the Bank of this River stands the

City of Arguna,

And about 13 Ls farther up the River Benin, on the E. fide, flands the great Town of Gaton, or Benin, the Capital of the Country, and Scat of their King: Hither our Shallops go freely up, and the Channel is good.

From the River Benin, about 4 Ls foutherly, lies the River Rozocam, a little shallow River, on whose N. side stands the Negro Town call'd Rogocam, and on the S. side the Village

Arobo.

From Aroho about 2 Ls and a half, lies the River Esclavos, from whole S. Point falls off a very large Riff, or Shoal of Sand, reaching 4 Ls to seaward, being not above 3 Fa. at the deepest, and in some places not above 3 Foot: so that with a great Ship on this Coast, you cannot come so near as to see the Land, without danger of running a-ground.

From the River Esclavos 5 Ls to the southward, lies the River Foreacles; in the Fair Way there is 12 Fa. good anchorground, but on the S.E. fide there's a Flat falling down from the Land, with a Riff reaching off from the N. fide about a L.

When you come into this River, avoid the S.E. fide which 18 flat, and the N.W. which is shoal; and run easterly into it,

in the Mid-channel.

The River has two Branches reaching up to landward; but 6 Ls up in the Left hand Branch, lies the Place of Traffick.

The River is known only by two Trees greater than the

rest, that stand on the S.E. Shore.

To the fouthward of this River, about 12 Ls from hence, lies the River Lamas, not much differing in Depth and Con-

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From the River Mea 6 Ls casterly lies the River Barabalemo, on whose E. side stand two Stakes like Masts of Ships, by which you may know the Place. All these Rivers slow into this opening, S. of the Cape; and sometimes Ships Boats go in for trade, but 'tis very hazardous as well as difficult, because of the Cannibal Negroes. You pass along by them all in 8 Fa. and at the dist. of 2 or 3 Ls from the Shore.

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From thence you come to the River Sombrero, before whole Mouth it is to flar, that you must keep off to seaward, quite out of fight of Land.

You may run along from Cape Formosa to the River Sombrero, in 8 Fa. Clay Ground; but near the River it breaks 2 Ls off from the Shore, and is slat and shoal 5 Ls more: But there is nothing lost by it; for as the Shore is bad, so the People are worse, and you can have no Business among them; and our Sailors always knock em on the Head when they meet with them.

Eastward 8 Ls off from the River Sombrero lies the River Royal, whose Mouth is about 7 Ls wide, and 'tis 2 Ls wide within at the E. Branch, and 1 L at the W. Branch, some Miles up the Stream, and deep Water too.

As you come along in 8 Fa. from the W. towards the Opening of this River, so you must 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 seen by the Breakings of the Sea upon it, and you must therefore keep to seaward round it, and that not in less than 3 Fa. Then run N.W. along, still keeping in the same depth toward the Dead Island; call'd so, because here the Christians bury their dead. Then steer to the W. Shore, to the Island of Foche, where you may come to an anchor with more Satisfaction; for there you'll meet with peaceable and rational Negroes, and you may put into their Rivers with safety, and have great Trassick for Slaves.

In coming from seaward to Bany, a Port on this Coast, you must be very cautious of the Shoals and Sands which lie thwart along the Mouth of the River: You may avoid them by running to the eastward, till you come near the River Andony; then keeping in 6 Fa. by the Shore, run along till you are in 4 Fa. near, and past a Cape call'd the Rough Point. When you are got about the Point, you may come to an anchor in 10 or 12 Fa. sheltred from easterly and southerly Winds.

In this River Bany is the Island call'd, as above, the Dead Island; you may be supplied there with Water and Wood at pleasure: But you must run above the Island, sounding thro' as you go between the Banks in about 2 and half to 3 Fa.

At the N. fide of the eastern Branch of this River, you'll find a Road or Haven fit for Ketches; and many fach put in here for Trade, coming from Cape de Verde Islands: Near this Haven stands the Village of New Callabar, the chiefest

Place

Place for Merchandize in all the Country: The Trade is for the most part in Slaves, and the Village is surrounded with Palhadoes after the Country manner.

N. B. At Caran an E. and E. by S. Moon makes high Water. At the River Benin an E. and W. Moon makes high Water, where also it flows in 3 Hours, but obbs out 9.

The rainy tempessuous Seasons are the same here, in the southern Latitude, as in the like Degrees of Latitude N. on the Coast of Guinea.

Sailing Directions from the River Andony to the River Gabon.

A BOUT fix Ls castward from Andony comes in a great wide River call'd Callabare; in the Mouth of it lies a Sand Bank to seaward, reaching off a great way: It may be known, as you come from the westward, by the breaking of the Sea upon it; however, you may go on, keeping off from it in 5 to 3 Fa. on either side of it.

About 9 Ls castward from thence lies the River Rev, or the King's River, which is very great and wide, but extreme muddy and shallow, not above 3 Fa. Water at the deepest.

In coming from the westward to the River Rev., you may found over the Banks of the River Callabare, in 3 to 5 Fa. then with an E.N.E. Tack you fall exactly before it: As you go you'll see abundance of Stakes to which the Fishers sasten their Nets, but they stand all in 5 Fa. so that you may boldly sail between them, and they serve instead of Buoys.

The Town of the same Name lies on the W. side of the Rey, at the Point of a small River: You may ride close to it, in 3 and 3 \div Fa. and if you please you may run half a L higher to another small River, from whence the *Blacks* bring down Teeth and other Commodities, as also from another River

higher than that.

In failing from the W. Point of the River Rey, steer E.S.E. over a slimy muddy Ground, in 4 Fa. along the Coast: But if you go by the Amboises, W. of the Island, then you must keep in 8 to 12 Fa.

From the high Land of the Amboifes to Camaroon, you fail along by 3 or 4 Rivers, with feveral finall Villages inhabited by Fishermen; and farther you'll fee abundance of Nets hung upon Stakes on the faid flimy Ground: Alfo you'll fee feveral Cliss upon the Main, as also others among the Islands, all of prodigious steepness and height; but you must make your way between the Islands, and if you must anchor let it be m 7 Fa. at least.

As you fail from the high Cliffs to the Island of Amboises, you must steer S.S.W. to reach Point Bato; and when you are in 8 and 9 Fa. above that, you must run towards Cape Camaroon, whereby you may get into the River.

The castermost of these Islands is of such great height, that it is supposed to be as towering as the Pico Tenerisse: It yields abundance of Provisions, good Palm Wine and Fish,

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come to the Mouth of the River at the Steep Point, keep to the fouthward till in 4 Fa. then W.S.W. if it be a Land Wind, you may go right out to Sea, but with a Sea Wind you must be careful, for about half way into the River lies a Bank of hard Sand, which tho it is but about two Ships length broad at low Water, is very long and shoal, especially at that End which lies up the River, where at low Water there is but 3 Foot upon the Sand; however, on both sides you will have about 4 Fa. When you are as far out as to see Bnss s Island, you must be very cautious, for then 'tis of such uncertain depth, that at one Cast you have 5 Fa. and at the next you'll be aground: But on the N. side you can receive no harm, for it's start far to seaward quite to Buss sylland, so that you may run as shoal as you please: 'Tis also slat soft Ground 9 or 10 Ls off.

S. by F. foutherly from the River Camaroon, near the Shore, flands the finall Island Branca, having all about it foft and flat Ground, but with good Soundings; to you have nothing to do but to keep the Lead going.

From Camaroon the Shore trends away S. by E. 7 Ls to the River Borea, a shoal River, only passable with small Boats, which draw not above a Foot Water.

which draw not above 4 Foot Water.

Then you get the high Land again, lying in Lat. 2. 45. N. Here tis flat to a great distance off, but not so flat as before

the Camaroon, your Lead will direct you.

From the Island Branca the Course is most S.S.E. 7 Ls, to an Island call'd Pan Navia, the Coast bearing on the same way; and between them upon the high Lands, you'll see abundance of Cypress or Palm Trees. There lies a great Bight on this Coast, behind the Island Pan Navia, call'd the Bight of Pan Navia, where there's very good Ground, as there is also between the S. side of the Island Pan Navia, and a Point on the Main call'd Gayara: You may pass along to the seaward of this Island in 15 Fa. being then not far from a Sand call'd the Sture, which for the most part is very steep; but there's a Foot Strand betwixt the Island Pan Navia and Point Gayara.

Southward from Gavara comes in the River Campo, on whose S. Point lies a Stone Bank or Shoal; the Sea breaks on it with great violence, and it appears dry at low Water: From thence you'll see to the landward, on the Main of the Coast, two round Hills; and a little farther another long Hill, by which you will mark the Coast.

On the S. fide of the River Campo lies a great Bight, wherein there's good anchor-ground in 6 and 4 Fa. as also good Ballast and fresh Water may be had: There stand a few Houses here and there close to the Water-side, and you'll see to the Land Seven ill-shaped Hills lying in a Row: The Coast all along is very low and bare, and the Strand is seen at low Water to be a clean hard Sand.

From the aforesaid Bight it is 7 Ls S.by W. to the River St. Bennet, a very shoal River, on whose N. Point stands a great Hill call'd the Haybarn: There also trends a Rist along the Coast on the W. side of the River, with some Clist's both above and under Water, to the inward part of the River.

over a Day muddy Ground, in 4 Fa. along the Coall: But it you go by the Amboifes, W. of the Island, then you must keep

in 8 to 12 Fa.

From the high Land of the Amboifes to Camaroon, you fail along by 3 or 4 Rivers, with feveral small Villages inhabited by Fishermen; and farther you'll see abundance of Nets hung upon Stakes on the said slimy Ground: Also you'll see feveral Cliss upon the Main, as also others among the Islands, all of prodigious steepness and height; but you must make your way between the Islands, and if you must anchor let it be m. 7 Fa. at least.

As you fail from the high Cliss to the Island of Amboises, you must steer S.S.W. to reach Point Bato; and when you are in 8 and 9 Fa. above that, you must run towards Cape Ca-

maroon, whereby you may get into the River.

The castermost of these Islands is of such great height, that it is supposed to be as towering as the Pico Tenerisse: It yields abundance of Provisions, good Palm Wine and Fish, but no great Trade: Yet Ships ride at anchor before it to buy Slaves and Teeth, brought hither from Canaroon, as also sometimes for the sake of good Shelter in case of contrary Winds.

Bato lies between two Points behind the Island of Amboises, and thereby stand some Palm Trees, with one in height exceeding all the rest: you may anchor before it, but it would not be amiss to moor the Ships, because of the Whirl-winds

and judden Gufts from the Mountains.

From the Amboises the Course is S.E. by E. to the River Camaroon. You may found the Sand Bank mentioned above from the N. Point, and go over it with safety, in 4 Fa. then run on till you come into 8 or 10 Fa. then sailing farther up, you will have 3 or 2 Fa. at low Water, all soft Ground, and

2 more at high Water.

When you are past Mount Sieras, you must edge again toward the northern Shore, to avoid a Bank that lies at the E. side, and reaches above half way over the River: Then keep the N. Shere, till the little River that comes out of the Foreland, call'd the Old Hole, opens. Then keep over again to the S. Shore, to another little River with an adjoining Village call'd Monombas Hole; you may anchor in 3 Fa. within or without it, and in soft ouzy Ground, this being the usual Place of Trade for this part of the Country.

Opposite to Monombas Hele, on the N. Shore, lies another anchoring-place call'd Teeth Hole, where you have good

Ground in 5 to 7 Fa.

About 10 Ls and half out to the Sea, S.W. from this River Conaroon, flands the Island Fernando Poo, being a high Island commonly covered with Clouds, but well inhabited with Negroes; there grow abundance of Sugar Canes, but you must be eareful if yea go a-shore for Wood, &c. for the Inhabitants are very barbarous and treacherous.

As you come out from Monombas Hole, if in still Weather, you must have your Boat a-head of your Ship, to avoid a Bank which comes off from the fouthern Shore: And when you

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On the S. fide of the River Campo lies a great Bight, wherein there's good anchor-ground in 6 and 4 Fa. as also good Ballast and fresh Water may be had: There stand a few Houses here and there close to the Water-side, and you'll see to the Land Seven ill-shaped Hills 'ying in a Row: The Coast 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 shoal River, on whose N. Point stands a great Hill call'd the Haybarn: There also trends a Risf along the Coast on the W. side of the River, with some Cliss both above and under Water, to the inward part of the River.

The Country from this Place appears full of high Hills, and the Coast all over Trees; nor are you far from it, when in 18 or 20 Fa. You go into this River between two fleep Points, having 4 or 5 Fa. at the Entrance.

From this River St. Bennet the Coast trends S. by F. and then E.S.E. being all in the Bight: The Land is even and plain; but to landward, easterly from you, lie three high Rocks or Cliffs all in a Row, whereof the northermost is the highest.

The Coast runs from hence for the most part SW, to Care St. John, with a Bank reaching off along the Shore; and about a L to the seaward off the Cape, lies another Bank, having 7 or 8 Fa. Water upon it, which when you are past, you have 14 and 15 Fa. all the way.

About 5 Ls fouthward from Cape St. John lies the Island Korisco, or the Island of Lightning: The Land towards the Sea Coast is generally fandy, except to the N.W. where it is stony. The Country within is overgrown with high Trees; but the Land is follow, that the Trees feem to stand in the Water. Coming from seaward approach no nearer than 9 Fa. because of a Stone Rist which runs off from the S. side; and as you fail thro' betwixt the Cape and the Island, nearest to the Island, you have shelly and gravelly Ground; but when near the Cape, you have frony Ground.

Cape St. John is block'd up with a Ridge of Rocks lying just before it, so that it has no Foot-strand. Off at Sea from this Cape the Currents or Tides meet with great violence; and the Ground being very foul and cliffy at Bottom, the Water coming from the S. beats very hard against this Point, and then runs along to the northward. When you have past this Cape, the Coast falls to the S. castward, without any consider-

able Hills, for a great way.

W.by N. and W.N.W. distance about 2.4 Ls from Cape St. John, lies the Prince's Island. The Land is high and full of Trees, with a very fine Bay at the N.W. fide of it, where there is good riding, and you may he as near as you will.

Sailing Directions for the Southe

There lie three small Islands on the E. side, and another on the W. side. This Island affords good Refreshments in abundance.

In failing from the River St. Bennet to Cape Lopez Gonfales, you must mind which way the Travadoes drive the Water; for the Sea flows from whence they arise: And if you lie at anchor when the Travadoes begin, you must weigh with all speed, and get off: If it be in the Morning, keep to seaward till Noon; then make again to the Shore with the Sea Wind; but if the Winds do not alter at Noon as usual, you must (for all that) tack about for the Shore if possible, and anchor as well as you can: But approach no nearer the Shore than 12 Fa. for 'tis very soul upon all this Shore, and in the time of the Travadoes the Water runs about by the North.

In failing from Cape St. John and the Island Korifeo into the River a' Angra, or Anger, as some ignorantly call it, the Course is E.S.E. till past Korifeo, keeping a good Offing all the way, because of the Rocks towards the Cape: Thus Jou'll come to Little Korifeo; and when past that, keeping still in 4 or 3 Fa. you will see a little River on your Starboard side, which you pass, and so along, till you get another River near a high Point on the Starboard side: This River draws you in very hard, so that in still Weather you run into it with Ease, and sometimes whe-

ther you will or not.

In failing from the River d'Angra to the fouthward, some say the shortest and best way is to go thro' between Korisco and the Main, southerly from the River; for there is a hard and swift Stream, so that you may run freely that way: nor need you question the Depth; but there are some stands on this Coatt between Korisco and the main Land, which are dangerous.

Cape Lopez Gonfales is a low Land, with a very long Point theoring out to the welfward. If you would anchor here, bring the Pitch of the Cape N.W. half W. and the S. Land S.E. half S. and you may place your Anchor in 6 or 7. Fa. but the Ground is very freep, and the Currents very variable, fo that they ought to be carefully observed and allowed for.

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Monombas Hole E. and E. by S. R. D'Angra — Eafterly,

Sailing Directions from the River Gabon inclusive, to Cape Lopez Gonfales, thence to Loango, Congo and Angola, and on Southward, to the Cape de Bonne Esperance, also inclusive.

The S.W. fide of the Shoals of the Island Koristo lies almost E. and W. of Cape Estiras, which is the S. Cape of the River of Engra. Cape Estiras bears N. by W. and S. by E. with Cape St. John dist. Les: From the Cape the Shore trends away S. making another Cape, pointing S.W. by S. dist. about 5 Les; from whence falling off again into the Land E. by S. it makes a deep Bight, call dthe Bight or Bay of Estiras. In the Entrance of this Bay is an Island cover'd with Trees, within which there is good Agehoring: The S. Point of this Bay is

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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. ftretching out in a long Tail to feaward. On the N. fide of this Sand it is steep, but on the S. side very flat, as above.

Bring the S. Point of the River to bear E.S.E. and S.E. by E. and then you may stand boldly in towards it, to keep clear of the faid Sand; for then the Point is steep enough, and as you go off from the upper Corner of the Bank to the River, the Water will deepen to 6, 7 and 8 Fa. Keeping thus off from the S. Point, and clear of the Bank, you will have the Fair Way open to you, to fail between the Islands. "I's also deep

and wide enough to turn it up, if there is occasion.

You may anchor under Parrots Isle, and lie safe at the E. end of it, to as to wath or clean, or mend your Ship's bottom; the Ground is fost and good: there is a Sand lies off indeed from the W. end of the Island, which you must take care of; but you will eafily find it by founding with your Boat. But if you would lay your Ship on Shore at the E. end, as above, observe that there stands a great Tree on a Point to the N. of the E. End, which you will leave on the Starboard fide; and then run along between two Stone Points, dropping one Anchor to seawards, and the other on the Land side to haul in by: then as the Tide rifes, you haul in gradually, till you come aground, fasting with 4 Ropes to the Cliffs.

The Tide rifes here 8 to 9 Foot. Having finith'd what you had to do here, you haul off; and running along the S. fide of the Island, you anchor again in 10 to 12 Fa. to take in Wood and Water. From hence you must watch the Land Winds, which come in the Morning, to go out to sea, keeping close under the Shore: you have 3 to 4 Fa. a Gun-shot from the Shore.

N.B. The Bank on the S. Shore of the River Gabon wears out every year; it is not fo shoal by almost a Fal now as it was formerly: the Sea ripples much upon it, and makes a very

great Noise there, especially on the Ebb.

Due W. from the Mouth of this River out at Sea, dist. 40 Ls, lies the Isle of St. Thomas: Tho the Equinoctial Line crosses its Center, yet the Air is moderate, and it yields abundance of Cattle and Refreshments. At the E. side of it is good Anchoring; the Road is called the Road of Anne Chares, being under the Lec of a great Rock called the Island of Anne Chares. At the S. end of the main Island is another little one call'd Rotes, but by our Sailors the Isle of Rats: there is a small Rist off of the E. end of the Island; and castward of the main Island a Cluster 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 Coast of Guinea to this Island, you must mind the proper Season, viz. During the Vintanies and Land Breezes, which last from April to September, steering W. and W. by N. till Night, because of the Currents, and stand in with the Shore in the Day.

To anchor in the Road off Rotes, bring a great Tree which you will fee upon the Ifland, and the S.W. Point to bear foutherly from you; then you are in the best of the Ground.

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The Cabon lies directly under the Equator, and right E. and W. with the Island of St. Thomas. The Entrance into it is very wide, and as you come from the northward very uneven, rocky and stony; so that at one Cast of the Lead, you have 15 to 16 Fa. at the next 5, and at the next saft a Ground. But the Entrance is so wide, that you have shifting enough, and your work is to stand over to the S.E. and S.E. by E. and then you have Depth enough: If you come from the southward, and are about the S. Point, keep the S. Shore aboard as you go up: and tho you may have some foul Ground here and there, as you come about, yet you may ride with great Security almost where you please on that side.

When you are run up some length into the River about 2 to 2 ½ Ls, you will see two Islands, one called the *Poppingjay* or Isle of *Parrots*, and the other the *King's Island*; they lie abreast of one another, and you may run in between them E.S.E. in 7 to 8 Fa. but keep off from the N. Shore, for the Island is foul. The Anchoring-place is known by a Cluster of high Trees, and a Bush standing under them; there you have 3 ½ Fa. good Ground, but soft; if you go into the River by the S. Shore, keep off from the S. Point, at least in 3 to 3 ½ Fa.

Cape Clara, 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 you please in failing along, but come no nearer than 10 Fa. to anchor.

N. B. The Flood in the River Gabon fets up E.N.E. and the Ebb fets out S.W. and W.S.W. and the Stream runs exceeding strong, especially out.

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If you come in at the N. end of the Island, you make the Land as if it were two Islands: Keep your Course E. by S. till you have brought the Castle W. by S. and then you go fair with the Road. You must not go right in with the Castle, for there you will find a very uneven bottom, some times 30 to 40 Fa. and at the next Cast no Ground, and then as suddenly 15 to 25 Fa. or perhaps so shoal, that you may see the Breakers upon the Rocks.

Between this Island and the Main is 40 Ls, and the Course due E. but to Cape Lopez the Course is two Points to the S. cross the Current, which sets strong to the N.N.E. at the rate of 5 miles a Watch. The Coast is very steep and uncertain.

If you would anchor at St. Thomas's to ride for any time, the best place is about Gun-shot to the northward of the Castle in 5 to 6 Fa. or if with a small Vessel, in 3 to 4 Fa. there you have good Ground and secure Riding.

From the Island of St. Thomas to Cape Lopez Gonfales the

Course is E.S.E. 37 Ls.

The Island of Finas lies S. from the River Gabon 6 to 7 Ls, the Shore between cover'd with Trees. Then begin the Flacs, which lie out to seaward between the River Nazar and Angra; where Caution must be used, especially with great Ships, not to come nearer than into 10 to 12 Fa. Small Ships may venture indeed into 5 to 6 Fa. but no nearer. S. of those Flats you'll see an Island with a white Sand-Bank very shoal, running out a L. from the Main. There is not above 2 Fa. upon that Bank, therefore come not within 5 Fa. of it; then go away W.N.W. to get above the Riss which shoots off from the Island: being past it, you have Cape Lopez in sight, bearing W.S.W. from you, according as you lie off.

Cape Lopez is to low and flat, that the Trees feem to fland in the Water; but 'tis free from Shoals and Riffs, and you may come as near it as you pleafe, for 'tis fleep too. When you come near, and would go to the Road, run S.E. as high as you can. There is a very high Tree at the Creek, which as you come from the Cape flews higher than all the rest; but in com-

ing from the E. you don't fee it at all. Here you anchor in 8 to 10 Fa. and your small Bower carry'd to seaward will lie in 12 Fa. From May to Oclober exclusive you need not moor, for

the Wind blows always S.

The place of Trade here is call'd Papos Cafas: To go from the Cape thither, they run to the Shoal or Bank, which trends to feaward off from the watering-place; it is a Bank of white Sand, having not above 5 to 8 Foot Water on it, and steep too; 'tis to be feen at a distance, and it runs farther out to seaward, for it deepens to 7 or 8 Foot at half a L. and not to above 2 Fa. at 2 Ls: the shoalest place is when the Watering-place bears

S.S.E. from you.

There is a Sand-bank in the Fair II ay, as you come from the northward: 'tis fo shoal, that you can not go over it, nor is it foon feen, for 'tis to fleep that but one L from the Cape N. you'll have 30 Fa at one Cast, and at the next be fast a ground: The fure way to avoid it, is to keep the Cape aboard, and then you are fate. When you are eafterly from it, between it and the Main, with a little Island on your Starboardfide, then you may run into the Bight of Olebatto: Going in there, keep on E. by S. till you are also past the Wateringplace Sand, then keep on to the high Trees, and there you may come to anchor with Safety.

' Annabon. Those who fail for Europe from the Cape of Good ipe, generally make this Island, it has some small Islands lying crose together on the S. side of it, and the Road is on the N. side, having 6 to 7 Fa. good Ground. N.E. $1 \pm L$. from the Island lies a large Cliff or Rock, and half way to it another lefs, and even with the Water; you must run between this last and the Island; but if you turn to feaward towards the great Rock, you may very well fail thro' with the Wind at E. in 7 Fa, as far as a Village on the N. fide of the Island, where you may ride in 15 Fa. E.N.E. from you, diff. 1 L, and about Musket-shot from the

but on the N.E. fide of the Bay 'tis all clear: there are fome Houses on or near the Cliff, where is good watering.

From Cape Lope S. 10 Ls lie the Bights of St. Mexios, where is good anchor gin 18 Fa. and thence to Cape St. Catherme is S.E. by S. Ls. Between both he the Rivers of Forwandas and Camona, and good anchoring in either of them

Shore, lies another Cliff or Rock, which you must avoid;

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There is a great Tuft of Trees upon the Point of Cape St. Catherine; but the Land within is low, and also cover'd with Trees. To the N. the Coast trends S. and N. but more fouth-

erly it trends S.E. and N.W to the River Sefle.

The River Sefte is to cliffy, to full of Rocks and foul Ground, especially the N. Point of it, that you must not come mearer than 9 to 10 Fa. From the S. Point the Coast goes away due S. 16 Ls to Cape Majumba; some of it bears a little inward, and there are some high Hills with tall Trees on them like Pines, and some Bushes; other high Grounds look as

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they are flat on the top, and that to the N. is the largest. Then to the S. Point the Land falls again, and there a great Riss runs off to seaward, 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 said two Hills called the Womens Breasts to the S. Point.

To ride at Loango, you must go to seaward till you come into 13 and 14 Fa. till the great Castle lies S.E. by E. from you; then stand in again to the Shore, till you come into 4 and 5 Fa. where you will have good Ground. When you are within the Riss, keep a Village called Fine, which lies on the high Land, E.S.E. from you, and the S. Point S.W. southerly also from you; and then you will be in 3 to 4 Fa. good Ground. N. B. The Sea runs very high and hollow on all this Coast.

From the high Point of Loango there is a great Riss called the Indian Bar, which runs W.N.W. 2 \(\frac{1}{2}\) Ls to seaward: and southward from it 8Ls runs the River Cacongo, between Loango and Moleomba; and at the Entrance of it easterly from the Indian Bar, dist. 6 Ls, are 4 Islands which look like a Riss; reaching along the Coast about 1 L from the Shore: the Sea

breaking upon those Islands makes a horrible noise.

To the fouthward of the River you fee the high Mountains of Cafeais floping to feaward: The Land is low, but the Coaft is dangerous, and you must not come nearer than 10 Fa. the way from Cape Lopez to this place, you come with great Difficulty, turning fometimes against the Wind, fometimes against the Streams and Currents, and sometimes forc'd to anchor because of both being against you together. In the Night you anchor, and in the Morning stand off to Scatill near Noon, especially if the Wind is S. and S.E. and even when 'tis still you must do the same, tho you should be in 80 Fa. except you will lose Ground: But if you lose Ground, you must come to an Anchor; for if the Weather be still and you cannot hold a Head, you will find it very hard to pals the Mouth of the great River Cacongo or Cocongo, for the Stream runs with a terrible Force, and most part of the year shoots 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 Cafes you must keep off as before.

The Sea beats with greater Fury upon this Coast from March to September, than it does all the rest of the year; you must

therefore keep farther off to Sea at that time.

The next River is call'd the Cabinda, or by some Dues Montes, which comes into the Sea S.S.E. casterly from the Congo, dist. 9 to 10 Ls. The Coast is sandy and stony, and still of Palm-Trees: you may run along in 6 to 7 Fa. the Land plain and bare. On the N. side of the Cabinda lies the Town of Lemba, and on the S. side Cabinda. The Land makes a large Bay: as you go in, keep a Gun-shot from the Point, and run northerly about it; and when the Point bears S.W. from you, anchor then in 5 Fa. over-against a great Tree which stands near the Sea-side. If you keep the Point S. and S.W.

Houses or or near the Chiff, where is good watering.

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The Coast trends next E.S.E. and W.N.W. from Cape Majumba to Alvara Martens Bay, the N. and S. Points of which make a very fine fair fandy 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 Sellage the Coast trends S. and N. 10 to 11 Ls, the Shore very high, with several white Hills. The Shore is steep too, so that you may ride in 10 Fa. close under the Land, and very good Ground: To the southward and near the Shore, there is a small Island, which must be avoided, because the Ground is soul. About 2 ½ Ls more southerly lies the Riss of Sellage, W. by S. from the Main dist. 3 Ls. This Riss has abundance of Rocks and Cliss, and the Sea breaks on them with great Violence and Noise.

From the Cape fouthward the Coast is low and even, only some little Hills near Black Jalumba. Thence for about 4 Ls it appears like Sand-hills, all double, and some Palm-Trees scatter'd about here and there: the Strand looks reddiff, but is chiefly Stone and Sand. Come no nearer than 9 Fa, ouzy Ground, the shoalcr the worfe; 'tis also the same to the little Hills called 11'0mens Breafts, and the S. Point of the Rio Montes; they look like Islands, but are not so as you pass by them: Come no nearer than 2 Fa. tho your Vessel be small, for there runs off a very stony Riss from it about by the fouthward, and the Strand is also dangerous. You have the Land even and bare from the River to the S. for 2 Ls, to a high Point floping from seawards, with red steep Land hanging over, and small 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 with a great Row of Palm Trees upon it.

Farther within the Land is the Village Awary; and fouthward from that you will fee two Box-Trees call'd the Caftles; Ca to the

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The Land is steep and broken, like the Ruins of old Cassles, all the way southward from the River Duos Montes: it has also a great many Hummocks upon it, cover'd with Palm-Trees: also there is a Forest or Wood, which shews regular like a For-

tification.

You must not come nearer this Coass than 18 to 20 Fa. for 'tis sull of Rocks under Water in 15 Fa. and under shore there is a great Shoal runs off, which has not above 6 Foot Water at high Tide: also the Sea runs very high here, especially with a Spring Tide. From hence southerly the Coass lies low and broken, except the Mountain of Cascais, and the Shore is very stony for 10 Fa.

Beyond the faid Mountain the Land feems to be all drown'd, and abundance of Water continually running out of it; and fometimes 'tis all under Water, occasion'd by the Freshes, which run with such a rapid Current, that sometimes they bring with them huge pieces of solid Land, which like sloating Islands drive into the Sea with strange Fury. This is the great River Congo, so sam'd in the World, and which is so great, that as it enters the Sea in two Branches, the southermost is called the South Sea, and the northermost Zair or Sair; and from hence some call the whole River the River Zair, but that is by mislake.

This great River empties it felf into the Sea at a Mouth of above 30 Ls broad, and with fuch great Force, and so predigious a Quantity of Water, that the Fresh coming down W.N.W. and W. by N. tinges the Water of the Sea for above 12 Ls; and even when you are out of fight of Land, you know where it is by the Water being black and foul, full of Reeds and other Trash sloating together, which the Force of the Stream pouring down such high Rocks, tears out of the Country, and hurries into the Ocean; so that without a stiff Gale of Wind you can searce sail cross it, the Stream being violent against you for above 15 Ls

Sailing Directions for the Southern

Vet you may at certain times fail into this mighty River under the northern shore, when its Mouth is much narrower, and may anchor at Malmerino; but the Ground is so muddy, that your Anchor will hardly hold. Coming into 3 and 4 Fa. you will be in danger of losing Ground by the Current; but after about half a L, you must shoot cross the River, and then you will come into 10 and 12 Fa. on the other side. In this Course you are oblig'd to keep close to the Shore of the Point, otherwise 'twould be impossible to get into the River, much less to sail up the Channel; for the Stream is so surious, you could never stem the Force of it, nor, for the same reason, 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 Padron: The Coast is mountainous, and great steep Hills appearing like the Sail of a Ship; it trends S.E. by E. to the

Green Coast on the N. fide of Point Palmar.

Point Palmar is low Land, and to the N. of it you have a great Bay, where you may anchor in 5 to 6 Fa. good Ground; and near it is a Bay called La Funta: To go into which you must keep a Gun-shot from the Point, then you will see a large Tree on the Sea-side, 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 Stone Riff. Here fland on your Guard against the Negroes, as well

as against the Rocks, equally dangerous and fatal.

If you are bound to the S. keep not too far off to Sea, lest you meet with a Current, which is very strong in the Ossing, and sets to the northward; you may easily know it by observing those red stat Hills called Barrier a Vermillas, there you are right against it. Then run in towards the Shore in 10 Fa. and keep along by it right S. for 8 Ls. You may anchor any where upon the Coast in 10 Fa. clean Ground, and the Land in view: When you are past the S. Point, the Land salls S.E. by E. into the Bay of Fanta, and so to the River Ambrise.

This River Ambrife has a very flat low Land on the S. fide, and the Sea breaks violently on the Point of the Land: you may come as near the Coast at 8 Fa. but not nearer. On the Land you see a close green Forest Country, but not many great

Trees.

About a L to the S. of this River lies a rocky Point, which the Breakings of the Sea make a prodigious Noiseupon; and 4 Ls to the S. of that is a Hill called *Bamba*, which looks like an Island. About a L S.S.E. from the Hill you have a hard Sand and good Anchoring.

Farther S. you fee Marbamba, and still more foutherly the seven Hills lying close together like Islands near the Sea-side; and at the southermost end of them the River Danda salls into the Sea with a very sharp Stream. The S. Point of the River is very high, and sallssteep like a Tail: you have good Riding

all along here in 12 and 15 Fa. fost Ground.

From the S. Point of the Danda to the River Bengo is about 8 Ls S.E. the Land low, and the Shore steep; and to the S.S.W. from the Danda is St. Paul's Island: A S. by W. Wind carries you thither, if it does not over-blow; but if it does, you must run into the Bay of Bango, where you may ride in to Fa.

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ver Loanzo, between Cape Sambras and Cape 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 Stream fo swift, that it is perceived 4 or & Ls at Sca.

From Loanzo Bay S. lies Cape Ledo, call'd by the Seamen the Merry Point, Ledo in the Portuguese signifying Mirth or Joy: 'Tis low, and runs far out into the Sea. On the N. of it the Coast is full of Hills, and steep for 4 Ls; on the S. 'tis green and finooth.

From hence to Cape Negro 'tis all a hilly Coast and white Sand: And the Coast is so fair, that you may run along without fear within a L of the Shore.

There is a great Bay 5 Ls to the S. of Cape Ledo, call'd

Palm Tree Bay, the Shore cover'd with Trees: And about 5 Ls farther S. is another Bay, near which is Cape Talo: In this Bay you may ride without fear all Weathers. From thence is Cape Brufo, near which are fome black Hills; and then the Coast is all equal again, with Trees upon it, till you come to the Bay of Bengueta, where the Land is all low, except one Hill falling steep to the Sea-fide. Thwart of this Bay you have not above 6 Fa. and half, but as you fail by Cape Benguela, you have 17 to 18 Fa. muddy Ground; and near the Shoals the Cape is low, even with the Water, and full of Trees; to the fouthward of which lies Hens Bay, and the Mouth of the River Tonge, where is 20 to 25 Fa. muddy Ground. From Cape Renguela to Fort Benguela is 5 Ls S.E. by S. Thence Point Francesco lies S. by W. 13 Ls; between which and the N. Point of another Bay, is a Bay which has a Flat in the middle of it, and therefore call'd 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 fresh Water.

From Point Benguela S. 10 Ls lies Sombrero, shaped like a three corner'd Cap, with a River running into the Sea S. by it, and a Salt Pond: Thence 5 Ls S.W. lies Point Francesco, and a fine Bay S. of the Point, with two Rivers running into In this Bay also is a small Fort, call'd St. Francisco, where you may run in with finall Vessels; 'twas formerly Spanish,

but 'tis now Portuguese'. From hence you go S.W. by W. to the Three Frvars, a broad Point on the Coast, dist. 13 Ls. Between both is the Swedes Look-out, with a finall Bay to the W. where is 8 to 12 Fa. good Ground; and another larger Bay a little to the W. call'd Claymuls, fornewhat narrow at the Entrance, but very large within, and has 10 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 lies a little Riff trending off to seaward.

S. from Sheeps Bay 20 Ls, is Tygers Bay, where is good Ground. Point St. Nicholas lies between these two Bays, from whence a great Riff full of Rocks and Cliffs shoots out to feaward: And from Tygers Bay to Mount Negro the Course is S.W. by S. 20 Ls; and the Old Man, a very high Mountain, lies in the midway.

From Mount Negro to Cape Negro, or the Black Point, is

Land you fee a close green Forest Country, but not many great Trees.

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S. from St. Paul's you see Point Palmerina, being low Land with some dead Trees without Boughs upon them; and southerly from thence lies the Bay Loanzo, which you will know by a close Wood of Trees that lies against the middle of it, and two round Hummocks northerly; and there you may anchor in 6 to 7 Fa. good Ground. Into this Bay sales we Ri-

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lies in the midway.

From Mount Negro to Cape Negro, or the Block Point, is The Coast lies most due N. and S. being so steep too, that you may fail along close by the Shore; the Land high fandy Hills, and the Strand a white Sand all the way. A little S. from the Cape lies a low Sand Bank, which looks like an Island, and is call'd Tygers Island; but the middle being join'd to the Main, makes a Bay, where is a good Roads The Island is about 6 Ls long, the inner side broad like a half Moon; and there are several wooden Crosses on the Point of the N. fide. If you go into this Bay, there are some 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 Island, and reaches foutherly almost round it, which you must find out by founding carefully.

After you are past Cape Negro, till you come to 20 Degrees S. Lat. the Coast is very fair; and if you come from the S. you may fail all along within a L. of the Shore. Here the Land forms a great Bay to Cape Ruy Pierez, with fome Hummocks; and from the Cape towards the Gulph Trio fouthward, 'tis all high, and a fair fandy Shore, trending S.E. by S. 9 to to Ls; and you have so bold a Shore, that you have 13 to 14

Fa. within a 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 midmost is the biggest: And from the N. fide of them their tends a flony Point off to feaward.

Near the Gulph of Trio the Land trends S.S.E. and N.N.W. The Coast is low, yet steep, so that you have 30 Fa. within a L. of the Shore, fost ouzy Ground. The next Point is Praga Niower; the Coast is S.S.E. casterly, dist. 6 Ls, the Shore fair, full of Trees and little Sand-hills, 16 to 18 ha, within 2 Ls and half of the Shore.

From thence fouthward the Coast runs SSE, till past 20 deg. Lat. a fair Strand, and sleep too, having 14 Fa. within a L and

half of the Shore, black fandy Ground.

Near

Near this is the open Haven of St. Ambrose: From thence to Cape Sterra is all a sair bold Shore, even Land, with white Sand hills. In failing northerly here, great care must be taken of the fouthward side of Cape Sterra; for hard by a Place call'd Fartlons, lies a very bad slat Shoal near the Shore; and a little more southerly near Cape Rosera a worse runs sar off to seaward, so that you must not come too near the Land, till you get northward as high as 20 deg. S. Lat. and then you may run away N to Cape Negro, as above, where the Coast is fair, tho it does not feem so; and then you may run along within a L, of the Shore.

But if you are failing to Angola, and take this Course in 17 to 18 deg. S. Lat. then beware of the Shoal call'd Antonio Viewa, which has 80 to 90 Ls from the Shore, due W. from Cope Negro. This Shoal is very dangerous, there's but one Rock call'd the Moves Cliff to be feen upon it above Water; but there are abundance under it, and 'tis so exceeding steep, that you may be a-ground upon it on a sudden; but you have this help, that in the night you will know it by the loud Nosse of the Sea, which you will hear a Loss; and in the day you will see the prodigious breaking of the Water

Oa this Coast is a four Island call'd Secon, which trends off to sea vard from Cape Voltan; and the Bay of St. Helena is at

the N.W. Point very cliffy.

The Bay of Soldbana lies to the fouthward of this Island, having a very fair Road; and to the fouthward, about 2 Ls and half from the Main lies Elizabeth's Island, or Dasieus Island, about a L. in length, the Shore very cliffy and foul on the W. fide, but fair good Ground on the E. You may anchor about Gun-shot from the Shore in 16 Fa. good Ground and white Sand.

Robben Island, or as some call it Cornelia, lies 6 Ls S. from Elizabeth's Island, in compass 2 Ls, and the Land something higher than Elizabeth's Island. Half a L from it lies a great Stone, which the Water breaks surjously upon.

This Island affifts to make the famous Table Bay, and lies in the Mouth of it. Here a large Fleet of Ships may ride with fatery, land-lock'd from all. Storms and Winds except a

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Sailing Directions for the Eastern Coasts of Afric Cape Guarda Fue, or Guarda Foy, at the

HE Cape of Good Hope is in the Lat. of 34. S. If you purpose not to anchor at the Cape, but proceed to India, and especially if you come from the Coast of the Brasils, your best Course is to give the Cape a good Birth, at least of 20, or if you please 30 Ls; you will find the Seas less turbulent, and the Air more moderate than nearer the Land, where the Wind from the Mountains comes in Galls and Tornadoes very frequent.

Having past the Cape in that Latitude, and being bound for India or for Macha, and so designing to pass between Maday Jour and the Coast of Africa, call'd there Susfalo, you must

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And here you are in fight of the Cape of Good Hope, which appears from this fide like a hanging Island, with a small Neek of Landjoining it to the Main between two Bays: It has several very high Mountains upon and near it, whereof two are particularly remarkable, namely the Table and the Lion Mountains. From this last the S.W. Point of Table Bay is call'd the Lion's Tail, because it slopes away from the Mountain.

The Table Mountain has its Name from its Shape, which is flat on the Top like a Table, and lies about the Point, within Shore fouthward, between two Rivers, one fresh, the other salt. From the Bank of the last they climb up this Mountain by a Cliss, being inaccessible any other way: Its height is so great, that 'tis seen 10 Ls at Sea; but at the approach of bad Weather 'tis so cover'd with Clouds and Mists, that the Top of it cannot be seen at all: At other times it may be seen to the west-ward near 15 Ls at Sea.

There is another Hill near this call'd the Wind-hill, because it is said always to blow very hard there. Above the Salt River 4 or 5 Ls, lies a great Flat or Sand, whereon sometimes in hot Weather there will lie hard Salt 2 or 3 Inches deep.

In the Months of October, November, and December, they have cold Seafons here, and sometimes great Storms of Wind out of the S. and some Years it continues so till April: At these Times the Sea runs very hollow upon the Point, and off of the Cape. There are several good Bays and Creeks in this W. part of the Coast, and very good Havens, much better than the wild Road of the Cape.

Eastward of the Cape 7 Ls appears Cafe Falso, which may be known by three high Hills near one another, of which the two ourmost are the highest. Next to that is the Needle Point, call'd so because of its sharpness: And this is the southermost Land of Africa.

A little farther E. is Flesh Ray, call'd so from the abundance of Cattle to be had there: And from thence the Coast bears away N.E. and then due N. towards the Seas of Suffalo and Mazambique, being the eastern Coast of Africa, of which in its place.

Coasts of Africa, from the Cape of Good Hope to arda Foy, at the Entrance into the Red Sea.

In this Course you lose your Soundings; for tho you have soundings in Lat. 37. yet in running up to far W. you lose them again, for here you are past the Point of the great Rill of the Cape, which runs 40 Ls to the castward of Cape Aguillas, and where you have Ground; but off of Cape Falso you have no Ground, and hardly any along by the Cape it self: and here it is the same.

You may fland in as near Cape Agnillas as you please, and so upon all the Coast within a L of the Shore, from the Cape of Good Flope thither, but no farther. In the Course to the Island of Madagastar there is a strong Current sets S.W. or

bound for cen Mada-, you must with latery land-lock'd from all Storms and Winds except a biqu

Sailing Directions for the Eastern Coasts of Afri Cape Guarda Fue, or Guarda Foy, at

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good Birth, at least of 20, or if you please 30 Ls; you will find the Seas less turbulent, and the Air more moderate than nearer the Land, where the Wind from the Mountains comes in Gulls and Tornadoes very frequent.

Having past the Cape in that Latitude, and being bound for India or for Mocha, and so designing to pass between Madacastear and the Coast of Africa, call'd there Sugalo, you must shape your Course N.E. easterly toward Los Bassos de India, as the Portuguese call them, or as our Pilots call them, the Shoals

You will know your being upon the Coast, by a certain kind of small white Birds which sly in little Flocks close together, and are always upon that Coast, but never farther off than 20 Ls or thereabouts: They are so certainly there, that if you are in the Latitude and do not find them, you may depend you are too much to the castward, and may run upon the Island of St. Lawrence before you are aware; in that case lust up to the westward, and go away N.W. by N. and N.W. till you meet with those Fowls, or have some other Certainty where you are

As foon as you fee the Fowls, and are thereby fure of your Coast, go away N.E. and N.E. by N. till you come into Lat. 16 S. N. B. The Shoals of India lie in Lat. 22.40. Being in Lat. 16. you will meet with other Fowls called Alcatraffes, about 8 or 10 in a Flock; and then you are certain not to be above 10 or 15 Ls from St. John de Nova: then steer away N.W. which brings you to the Island Anganos, onwards to the African Shore; the more northerly you go, you are the surer to make the Coast of Mozambique.

When you are upon the Coast, give the Land a large Birth, and come no nearer than 25 Fa. that Coast being very foul, and full of broken Ground and Shoals, which lie far out to Sea.

The first Land on the E Coast of Africa, after you are past the Cape, that we have any exact Survey of, is the Cape de Aguillas. This and the Cape of Good Hope lie E.S.E. and W.N.W. and from the Cape the Shore trends away E.N.E. shooting out into the Sea eastward, as it does on the W. side of Africa westward, thereby widening the Terra Firma of Africa, which is very narrow at the Cape: The Land continues to thrust out thus till you come to Cape Firmo or Cape Corrantees, so that in Lat. 24. 10. the Shore by that time lies almost E. and W.

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Soasts of Africa, from the Cape of Good Hope to arda Foy, at the Entrance into the Red Sea.

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You may stand in as near Cape Aguillas as you please, and fo upon all the Coast within a L of the Shore, from the Cape of Good Hope thither, but no farther. In the Course to the Island of Madagascar there is a strong Current sets S.W. or S.W. by W. if you can get a large Wind, to as to go away f. or E. by N. you may avoid it at least; the farther you are from the Shore, the less you will feel of this Current.

The best way to make the Island of Madagasiar in this Run, is by steering N.E. till you come into Lat. 23. to 247, then you are past the Shoals of India; having then made the W. Coast of Madagascar, you will the better set your Course to St. John de Nova.

N. B. At St. John de Nova, there is a strong Current in Lat. 17. which runs no leferther , Ls in 24 Hours, and holds it fouthward to Lat. 16.

After you are past St. John de Nova, haul away N. for Mobilia or Mobilla; it is one of the Islands of Cumaro in Lat. 12. 15. S. Due N. from this lie the Islands of Sacatra upon the Coast of Arabia, and almost in the Mouth of the Opening to the Gulph of Mocha, or the Red Sea; they lie in Lat. 12.40. N. fo that the Run is no less than 24. d. being 1440 miles. To go right with Sacatra, you ought first to make Cape Bussas on the Coast of Africa, Lat. 4. N. and go on N. by E. with the Coast to 8 d. N. then steer N.E. by N. for the Island.

On the W. Coast from St. John de Nova her the Shore of Mozambique: if you would go thither, steer rom & John de Nova N.W. by N. and if you would go into the wood of Mozambique, you must pass the two little Islands of St. Ja exand St. George, which he at the Entrance into the Gulph or Bay, leaving them on the Larboard fide, and keep in 6 to 7 Fa. also take great care of the Shoals of Cavefera, which you may fee by the Sea breaking upon them; then you may have Pilots to carry you up to the Island and Fortress of Mozambique it self.

A. B. Upon all this eaftern Coast of Africa, about 5 Ls due N. from Cape Corrantes in Lat. 24. S. to the Barras Vermulas in Lat. 16. 20. being at least 400 miles, there lies a Shoal or Flat of Sand from the Shore: at first in about 65 to 70 miles N. it is not above \mathfrak{Z} to $\mathfrak{Z} \stackrel{!}{\rightarrow} \mathsf{Ls}$ broad; at Cape St. Sebaftian, the Land falling back, it widens; and at the River St. Maria

Sailing Directions for the Island 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 otherwise, fometimes running far out, fo that the Sand is not above 2 Ls wide, as at Bango, and 5 Ls, as at Rio Suffalo; and at other places falling back, so as to make it 12 and 15 Ls wide, for still the outer Edge of the Riff or Bank is the same. It begins to be thus broad at Rio de Mata, Rio Camala, and the Boccas de Cuama, or Mouths of the River Cuama, which is the greatoff River in all that part of the Country: here the Shoal is 15 to 17 Ls broad, and continues fo to the northermost Opening of that River in Lat. 19 to 17 ½. There are indeed some deep places in the Shoal, but then they are mere Pits or Lakes, tho some 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. are also some Islands upon it, and a great many scatter'd Rocks; but the Water being shoal they are all seen. The Depth of Water varies upon this vast Shoal very much; in some places it is 1 Fa. in some 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 Coast is intercepted except for small Crast; 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 12Ls; 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 fweep like a

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Sailing Directions for the Island of Madagascar, or Islands adjoining.



HE East, South, and North-west part of Mada gascar are the particular Coasts, where the Navigation being most practicable, the Europeans have traded and converted with the Natives, and by that means became acquainted with the Coast.

The first Place we usually make, being bound from the Cape of Good Hope, is the Bay of St. Augustine: To make which keep in Lat. 24. 20. steering from the Cape N.E. When you are in this height, go away E. directly for the Island; there you will find it bold and no danger; but farther N. the Shore is toul, and you must be more cautious.

When you have made the Land, go away N. or N by E. with the Shore, till you see a Point with a high fandy Hill on it, like the Table-bill at the Cape, and some Trees by the Hill.

N. by E. from this Point dift. 13Ls lie the Island and Shoal in the Mouth of the Bay of St. Augustine: You may go boldly up to them, as above, keeping in 4 Fa. but no nearer, nor must you anchor near them at all, for the Ground is full of Rocks of Coral, which will cut your Cables, and hold fast your Anchors, as bad as a Rock of Marble: Haul away therefore E. to the Channel which leads in, and go up till you come to two Hills which open like the Entrance into Dartmouth, and another high Land which thews like Westminster*N. B.* It are ve 5 a-clo

You ride Shoalings, 1 the Coast is

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Bay, fo the Curve or Arch goes very little inward; and the

Depth is much the same all the way, for it is bold and steep, 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 several very good Roads and Harbours also; but the principal are Mozambique in Lat. 15. Mombas and Melinda in Lat. 5. 3.

If you fail upon this Coast farther N. than Mozambique, and design to put into any of the Ports possest by the Portuguese, for here are no other, you must lie by and send in a Boat for a Pilot; or if the Sca goes too high for your Boat, fire three Guns each at 2 or 3 minutes distance, and Pilots will come off: if you are in Distress, you must run in at all hazards, but the Ports are generally bold, till you are within some Shelter.

There are some Islands on the E. side of Madagascar, which were much used for taking in Provisions and fresh Water, before the Dutch made a Settlement at the Cape of Good Hope, such as the Isle of Bourbon, possess by the French, and the Island or Islands of Mauritius by the Dutch, nam'd after their Prince Maurice, and by our Seamen corruptly called the Morushoes: These Islands, are now render'd almost useless by the Dutch being planted at the Cape, and having no confiderable places on their Coasts, I need say no more to them than this, that there is but one Harbour of note, and there you may have a Dutch Pilot.

Madagascar, or St. Lawrence, and of the other lands adjoining.

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N. B. It flows here E. by N. and W. by S. and the Tides are very regular: At Full and Change 'tis full Sea at 5 a-clock.

You ride here very eafy in 9 Fa. Clay Ground and good Shoalings, so that you may lie as deep or as shoal as you will; the Coast is S.W. and N.E.

Upon the W. side of the Island, and N. from Youngoule. their lies a Flat or Bank all along the Shore, like that mention'd above on the African Coast, tho nothing so large; you may run within it almost all the way, and there are many good places to anchor in, as well as to trade in. This Shoal or Illat is call'd the Bassas de Procellas, and runs up N. and N. by E. above 80 Ls, but there is depth of Water sufficient in most places on this Bank, only that at the S. end for 20 Ls, there are abundance of Rocks under Water, and so steep, that at the very outer edge of this Bank there is no Ground at 200 Fa. It ends at Cape St. Andrew.

At the N. end of this Bank begins the Trading Coast again; full of the first Place from Cape St. Andrew is Balley-head: Balley old fast River lies N.N.E. from the Head dift. I L; the Coast is clean, with good Soundings, from 12 to 5 Fa. When you are thwart the ill you 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.

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The fouthermost Point of the Island is call'd Cape St. Se-bastian, in Lat. 26. 15. Here is good riding in several places, and the European Ships commonly use those Roads for fresh Provisions, when they go to India by the S. of the Island.

There are also several secure Roads as well on the W. as E. side of the Island, between this Cape and St. Augustine on one side, and between it and Port Dauphine on the other, and a

bold Shore all the way to both.

N. of St. Augustine dist. 5 Ls, lies the Bay of Tullea; there is a good Commerce with the Natives, but 'tis bad wooding or watering, the River being too shoal even for a Ship's Longboat: The Road is good, but you must anchor within the Breakers. These are a Ledge of Rocks which lie off from the Shore at about a Lastance: The Passage is good between them all the way from the Bay of St. Augustine. Bring the Table-hill, or that call'd Westminster-hall, to bear S.E. from you, then you are fair with the Passage, and may go in S.E. You have every where Water enough, and may anchor within in 12 to 14 Fa. or you may ride in the Mouth of the Passage 2 Miles in: If you want fresh Water, you must send back to St. Augustine tor it.

N. from Tullea Bay you have no Place of Trade, or any Road or Port, till you come to Toungoule, or Mandeota, and the Terra del Gada; 'tis a very good Port, there is no confiderable River, but there is an Inlet 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 must dig Wells for your Water, tho you need not dig above 3 or 4 Foot.

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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 Course E. by N. dift. 7 Ls: The Land rifes like two long Tables, and from thence has its Name; the northermost is far the longest, and is the most useful Sea Mark upon all this Coast.

Four Ls and half off of this Shore, westward, you will find a large Bank of Sand in 7 Fa. in Lat. 15. 40. the Table bearing S.E. by E. and the Island Maraponi S.E. half S. This Island lies 1 ½ Mile from the Shore, and has some Flats about it which are under Water at high Tide, but dry at low Water; you will fee them when you are but a Mile E. from it, where er, and a you have 9 to 11 Fa. E. of the Island is the River Maraponi, where our Ships trade for Provisions and Salt.

N.E. from Maraponi is New Maffeleige, and close beyond it the Indraught of Manigaro, two very considerable Rivers and Harbours, just together; the Opening of Manigaro is 2 Ls wide, it shews by the rippling of the Water as if it was barr'd, but the Bar (if it is io) has 6 to 7 Fa. upon it, and when you are over it, 8 to 12 Fa. and you have 7 to 8 Fa. 3 Ls up the River.

There are two Channels into Masseleige; if you would go in there, keep to the Island Janigamy, and there you shall have 7 to 12 Fa. but between the Island and the Main is no passing, there being not above 3 ½ to 4 Foot Water. There is an inner Haven beyond the first, you must go close under the Point of the Island, and borrow of East Maren, there you have 3 to 4 Fa. upon the Point, and 7 to 9 Fa. afterward.

Masseleige is an Island 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 best Provisions, and exceeding cheap; it is a very good place also to fortify upon, and iccure both the Land and the Port.

From hence to Old Masseleige the Course lies N.E. by N. distance 55 Miles; two Ls off Shore you have 6 to 7 Fa. Water, at the going in lie two high Rocks, the Islanders call them Pannera, you must leave emon your Starboard side. E. from it distance 2 Ls is the River Didame, where is good fresh Water, but the River is not navigable except for small Boats.

Five Ls E from Didame lies the great Indraught of Mozumgany; 'tis a double Opening, having the great River Sundges running into the Sea with it; also several Islands lie in the Mouth: you may anchor at the E. Point of the Entrance: Bring a little Island that makes like a Rock, and the W. Point of the Main bearing E. and W. and you ride within 3 Miles of the Point.

The River is navigable for finall Veffels, as Mozumgany also is; bring this Island to the S.W. from you distance 5 Ls, there you may anchor in 20 Fa, close to the Main.

This Coast is full of Islands; and unless you are well acquainted you cannot venture in, for here are no Pilots to be had. At the End of these Islands lies the Harbour of Morigando, half a Mile within the Opening; you may anchor in 13 Fa. good Soundings quite to the Shore, onzy Ground: There is a Sand Bank in the Entrance like a Bar; but there is 6 to 7 Fa. upon it, and all within it deep Water from side to side, so that it is an excellent Harbour for all Vessels and all Winds, it lies in Lat. 13, 40. S.

N. from this Harbour 4 Ls and half lies another Island greater than any of the others, except the biggest: It riseslike two Tables, and is low and smooth: There is a Rock on the N.W. end of it, which makes at Sea like a Sail: and by this

Island you may know the Harbour of Moringam.

Off of these Islands there runs a long narrow Bank of Sand parallel with the Shore for more than 30 Ls, but 'tis needless to describe it, for there is every where Water enough upon it for the greatest Ships, having 4 to 5 Fa. at least, and within it 10 to 10 1 ha. you may know it by the Rippling of the Sea upon it.

Farther N.E. 6 to 7 Ls lies Aftada: At the Point of the Entrance lie three small Islands, one call'd Summeretto, or the Sugar Loaf, from its Shape: There is a small rocky Island close to it next the Main; you may pass between the Sugar Loaf and the Main in 11 Fa. it lies in Lat. 13. As you enter the Road you will see the great Island of Nosse lying E.N.E. and W.S.W.

Seven Ls S. of Noffe is another round high Island 5 Miles long, and a leffer 1 L. Keep off between them both, and go on with the Shore bearing S.W. at least 7 Ls, then anchor in 18 Fa. and you will have a very good Road.

This Indraught of Aflada lies in N. by E. and S. by W. to Mangahelly Road, which lies in the Bottom of it; you have 10 Fa. and nothing to fear all the way.

Mangahelly rifes with Peaks and Flats easterly and westerly, and is a kind of an Island, for at high Water the Tide slows

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N. B. It ebbs and flows generally from 10 to 12 Foot upon all this Coaft, and no where more: The Tides flow here E.S.E. and W.N.W.

There are five feveral Islands in the Fair II ay between Madagafear and the Coast of Africa, besides Shoals.

1. Comaro, which lies in 11. 25. S. Lat. and is the nearest to the Coast of Mozambique.

2. St. Christophers in 17. 20. bordering upon the Bassos de India.

3. Mobilla in 12. 24. diffant from Comaro 14 Ls S.E. and from Joanna E. by S. 20

4. Joanna in 12. 12. The Road is very good, lying in a fair Bay on the N. fide of the Island; but it you come to it on the S. fide, you must stand off at a great distance to make the N. Shore where the Road is; for the Flaws from the Land, (which is mountainous) are very strong and dangerous. You are supplied here with excellent good Provisions, Wood and Water, very reasonable.

5. Meoticy in 12. 56. It is a high Pico, and may be feen 15 to 20 Ls at Sea.

On the E. fide of Madagasear are only two Places of Trade, that have been sounded and survey'd: First Port Dauphine; the Coast lies along from Cape St. Sebastian N. by E. 'tis a bold Shore, and you have 30 Fa. within 1 L and half from the Land; it has a low pleasant Prospect, till you come near Port

Dauphine, there the Land rifes a little.

Point Pier 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 Course is W.N.W. then you see a round bold Point, which looks reddish, but when you come nearer 'tis white, and the French Fortress stand' upon it a little to the N. side: Here you anchor in 6 to 7 Fa. within a Cable's length of the Shore.

There is a false Bay before you come to the Point, which

is very foul and dangerous.

N. B. It flows but 7 Foot here.

It is good Weather here generally from July to February,

but rainy and stormy from February to July.

In the fair Months you may fail with the Wind at E.N.E. and S.W. all along the E. Coast of Madagascar: In Lat. 16. 15. S. lies Antongal Bay, a fair clear Gulph, keeping the N. Shore as you go in. The Entrance is 7 Ls wide from Cape to Cape, and the Bay is 20 Ls deep: At the Bottom there is an Island 10 Miles in Circumference, with an excellent Harbour in it; here you may careen, wash, tallow, and do any thing as in a Dock, and there is good fresh Water on the Island.

From the northermost Cape of this Bay to St. Mary's the Course is N.W. dist. 12 Ls. St. Mary's is an Island also, lying in 16.48. S. and dist. 2 Ls from the Main; it is surrounded with a Riss of Rocks lying out half a mile from the Shore, so that you can not go on Shore, no not with a Boat, without Dissiculty and Danger: but on the W. side is such a Harbour as is not to be

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Seven Ls S. of Nosse is another round high Island 5 Miles long, and a lesser 1 L. Keep off between them both, and go on with the Shore bearing S.W. at least 7 Ls, then anchor in 18 Fa. and you will have a very good Road.

This Indraught of Aflada lies in N. by E. and S. by W. to Mangabelly Road, which lies in the Bottom of it; you have

10 Fa. and nothing to fear all the way.

Place is on your Larboard fide going in.

Mangabelly rifes with Peaks and Flats easterly and westerly, and is a kind of an Island, for at high Water the Tide slows round it: Bring the W. Point of the Entrance, and the S. end of Cisty which is another Island, into one, and they will be S.E. by E. and N.W. by W. 9 Ls dist. from one another: Nosse is an Island 5 Ls in length N. and S. To the S. of it is another round high Island call'd Nossegumby about 2 Ls. long; there you may have fresh Water, but must fetch it 4 Miles: Southward of this is the high Point call'd Cisty; it rises high, and looks like an Island, but it is a Cape from the Main.

The high Lands of Mangabelly are next to this, where there is a Head Land on an Island, and an Entrance in behind it with a Bay: And this is the Road where the Ships usually lie that Trade here. You have good riding here in an ouzy Sand, and what depth you please from 5 to 30 Fa. It ebbs and flows 2 Fa. therefore you must not come within 8 to 9 Fa. at high Water; there a good Ship may ride boldly: The Trading

the Point of the fummeretto, or the finall rocky Island etween the Sugar Lat. 13. As you nd of Nose lying

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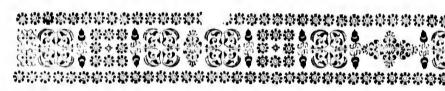
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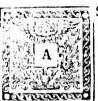
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Sailing



Sailing Directions for the Coast of Asia, Persia, beginning at the Gulph of M ending at Balfora, at the bottom of



S the Coast of Africa from Melinda northward Nation, so we have no exact Survey of the Coast from the Portuguese Settlement at Melinda and Mombass, to the Point called Guardaseu, or Guardasoy, at the Entrance in-Guardafeu, or Guardafoy, at the Entrance into the Red Sea, or of any part of the Afri-

can Shore of the Red Sea: so that the Account of the Sea Coasts of Africa must end with Madagascar, which we sup-

pele to belong to Africa. There is a Commi c indeed into the Red Sea, or the Arade which belongs to Afia; yet that bean Gulph, on the part relates only to the passing the Straits of Babelmandel, and

failing to the City of Mocha: for we know nothing of Navigation any farther.

They that are bound in here, must particularly observe the Scalons of the year: The Month of March, or the middle of April, is the particular time to go in here, not only for the Commerce, but for the Winds which are to carry you in or out, which are very doubtful.

The Winds generally blow fresh up the Gulph at S.S.E. to the end of April; if they hold it any time into May, itis counred late, and must not be depended upon. From the end of April to the middle of Angust 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 Islands of Sacatra in the Mouth of the Gulph by the beginning of April, you are secure of your Voyage to Mocha, and may fail in Mid-Channel, or under either Shore as you will, but chiefly on the Arabian fide: But if you are later, then you must keep the Ethiopian Shore on board, and going in by Cape Guardafeu, keep under the Shore till you get io high, that stretching over, you may setch above the Port of Aden in Arabia, allowing for the Current, which fets down very strong at that time of year out of the Gulph.

The Ethiopian Shore is bold, you may run along within a mile of the Land from Mount Felix; there are no Dangers but what are above Water: there are some Flaws of Wind, which when the westerly Winds blow are dangerous, but that is not at the time you should come there.

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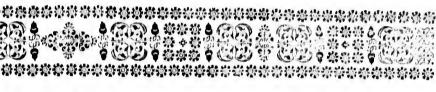
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From the beginning of April to the middle of August a S.S.W. and S.W. and variable to the West, with Squals and Gusts, and sometimes much Rain.

From the middle or end of August, to the later end of March, E.S.E. and S.E. by E.

The Point of Aden is seldom touch'd at by the Europeans, because of the constant Wars between the People of that Place and the neighbouring Arabs; else the Cossee might be had, and the whole Trade manag'd here as well as at Mocha; which would be of great Advantage to Navigation, this being a much more commodious Harbour and of easier Accels than that of Mocha.

There is a Light-house upon the Mountains on the Larboard side, and some Batteries of Guns planted there; but the Light-house is uncertain, sometimes having a Fire in it, and sometimes none. There is a Road also under the Batteries, where Ships ride in 4 Fa. close to the Castle, with a Cable on Shore and 2 out to Sea: The Entrance into the Harbour is about half a mile over.

You may ride also in the Mouth of the Harbour in 4Fa. either under the Command of their Guns, or out of reach of them, as you please. Ships of Burden may have Depth of Water enough here, from 3 ½ to 5 Fa.

There is another Bay castward of Cape Aden, which is often mistaken for the Harbour of Aden, and which is very large, being 7 Ls deep within Land, and 12 broad, with above 60 Fa. Water, in the Bay it self; so that it is really a dangerous place, having no Anchoring in it that may be trusted to: you should therefore keep a Man always at the Mast-head, to see that you be not embay'd, or in danger in such a Gulph, for the Currents and Indrasts may otherwise deceive the best Mariner in the World.

When you are got 3 Ls W. of Cape Aden onward of your Course to the Strait, you will have good Soundings in 23 Fa. grey Sand with Shells, within 3 Ls of the Land; and your Course lies W. and W. half S.

Midway between Old Aden, and a Hill on the Arabian Coast call'd Mitre Hill, there is 21 Fa. bold Soundings, good holding Sand, with a bluish Ouze: you may know the best of the Road by a Trankey which stands on the Shore, and some yery remarkable great Trees by.

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Aden lies 32 Ls without the Strait of Babelmandel; it makes first like an Island, the Coast high with ragged Rocks: as you come nearer, it makes like two Islands; but when you close in with the Shore, 'tis evident to be no Island, but a low Strand among high rising Lands. Being shot over to Aden, you may keep on under Shore, in 30 Fa. when you stand off, and 10 to 12 Fa. when you stand in.

Your Course from Aden to Babelmandel 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 Island, which bears the same Name, the Hills on both sides our Sailors call the Babbs. This Island makes the Entrance into the Gulph be called a Strait, or rather Two Straits.

The narrowest of these two Passages is that between the Island and the Arabian Shore: To go in here, you must run up with the Point of Babelmandel till you open the Strait; then stand boldly in, only giving the Island side a small Birth, because of uneven Ground; but the usual Depth is 8 to 14 Fa. and Coral Rocks at the bottom. In the great Strait between the Island and the Ethiopian Shore, there is no Ground at less than 40 to 50 Fa. and therefore it is the worst Strait, especially for Strangers; the Current out, is also stronger there.

Being past the Strait about a mile, your Course 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 Course brings you fair up with the Shoal, which lies to the southward of the Road

of Mocha.

You must not come nearer to that Shoal than 11 Fa. the Soundings being uneven; but keep in 11 Fa. and bring the highest Mosque in *Mocha* to bear E. by S. southerly; then haul in for the Road, where you may anchor in 5 Fa. or as you please: the distance from the Strait to the Road is 40 miles.

N. B. Here are no Tides, but a constant Current either into the Gulph or out, as the times of the Year happen when you are there. N. B. The Streams set as the Winds

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very remarkable great Trees by.

N. B. A Trankey is a kind of smaller Religious House for a recluse People call'd Dervizes among the Mahometans, and something like a Cell to a Monastry. N. B. The Tides and Currents run very sharp, as you approach the narrow Strait of Babelmandel: you must be very cautious here, for these Currents setting hard into the Bays and Gulphs on the Shore; if you mistake any of those Bays for the Strait, you are on Shore without Remedy. A Dutch Ship was lately lost so in a little Bay on the S. side of the Babbs. Observe also, if a Ship is lost 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 Coast of Arabia, your Depths will rife 4 to 5 Fa. at a Cast, 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 Strait to the Port of *Mocha* 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 Necessity may be, in the broad Passage; for there 1s 40 to 60 Fa. and you may judge the Difficulty of weighing your Anchors in such a

Depth, and fo fierce a Current as runs there.

Mount Felix is a Hill on the Coast of Ethiopia, between the Entrance into the Gulph and the Point called Guardasoy, lying with the latter W. by N. and E. by S. making properly

the S. fide of the Mouth of the Arabian Gulph.

N. B. Aden lies 16 Ls farther within the Gulph, than any of our Pilot-Books place it: 'tis also a general mistake, which many of our People have, that the Straits are the Entrance into the Gulph, for that the Red Sea or Arabian Gulph begins far without the Island of Babelmandel, and without the Port of Aden it self. N.B. It flows in the Strait of Babelmandel due N. and S. On full and Change, the Current runs after the Rate of two and a half Mile an hour.

If you come from Mocha, and are bound to India or the Gulph of Persia, as late as the beginning or Middle of Angust, you must keep off from the Arabian Coast, and run away to the southward, to take the Benefit of the Monsons or

Trade-Winds which are then fet in S.W.

The first Place of note on the Arabian Coast, after you are come out of the Gulph, is Maculla Bay, in 14. 16. N. Lat. The Mouth of the Bay is 6 Ls over, and the Bay it self is 3 Ls deep: At the N.E. Point is a very high Mountain, under which is a good Road, secure from E. N. and N.W. Winds: 'Tis a safe Road, and the Ground good; but if the Souths (as they are call'd) come to blow, especially S.W. you must take care of your self, for they bring in a terrible Sea: And this is the reason why here is so little Shipping upon this Coast; for as the Winds are generally one half of the Year S.W. or between the S. and the W. and the other half Easterly and N.E. the Case is very difficult to a Sailor; for one half of the Year you cannot come at the Coast, and the other half you cannot get off from it.

N. B. From April to July there goes such a raging Sea upon all this Coast, that no Art can deal with it, no Ship can live in it: For the Winds blowing constantly from Sea at S. and S.S.W. and the Sea so deep, that at 2 Ls from the Shore there are no Soundings; and there being not one Harbour or Road upon the whole Coast secure from these Winds, the poor Sailor's Case is next to desperate,

if he happens to come there at that time.

To anchor in the Road at Maculla Bay, bring the eastermost Point S.E. and the westermost S.W. and you are in the best of the Road in 3 + Fa. In the Bottom of the Bay you have 15 to 20 Fa. good Ground, but open to all Winds ex-

cept a due North, which feldom blows here.

E. by N. from the E. Point of Maculla dist. 12 ½ Ls, lies Shahar, in Lat. 14. 52. You may run along Shore here in what depth you please, from 9 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 no Harbour, being a mere Strand or plain Shore. Bring the northermost Hill to the N.E. by N. and the westermost Hill to bear W. then you may anchor in 9 Fa. a good fandy Ouze.

E. from Shahar 15 Ls lies Cape Bagathufa, and nothing between to do a Sailor any good: You may anchor under the Lee of this Cape, the Ground is good; but if the Winds blow from the S. you must be gone, for a L off Shore you have from 9 to 20 Fa. but after that 50, 60 to 100 Fa. and then no Ground at 200. Fa.

From hence to Kaysiun is 29 Ls, all a plain Strand; the Land behind is high and mountainous, and may be seen 10 Ls at Sea, but low by the Shore, and full of Villages, but an unhospitable starving Country, Provisions bad, scarce, and dear, and such field Water at an exorbitant rate: The Place is

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Town, to bear E. half S. and a high House in the Town to bear N.N.E. easterly, and your Ship lying one Mile from the Shore; then you have 5 \(\frac{1}{2}\) Fa. hard Clay Ground.

E. from Dofar about 9 Ls lies Moribatt, the best Road on this Coast for the easterly Monsoons, and therefore many Enropean Ships run thither, when being bound from the Arabian to the Persian Gulph, or to the Indian Shore, they have been taken short by the easterly Winds, and have lost their Passage.

N. B. There are no certain Tides upon this Coast, yet sometimes the Water will rise and fall 7 or 8 Foot. Generally the Water flows as the Winds blow, and change their Course with the Monstons.

N. B. Sometimes upon Full and Change, the Waters for 3 or 4 Days will run strong to windward.

If you are upon this Coast labouring to get to the eastward with an easterly Monsoon. be not atraid to keep the Shore aboard, when the Water thus presses against the Wind; but watch the Occasion, and keep along under Shore for the Advantage of the Current at those times: And by this Help skilful Steersmen have gain'd the Height of the Gulph of Persia, and saved their Passage, when otherwise they must have lain by at all Hazards, or have run back none, knows whither.

From Moribat the Coast continues, without Shelter, Road, River, or Harbour, to Cape Refulgat, or Roselgate, 120 Ls, the Course N.E. by N: No Wonder sew Ships care to come upon this Coast; for it a Storm from Sea happens to blow, there is nothing but present death, if you cannot keep the Sea; the Shore being all over Rocks and Riffs. This Cape Resulgat is the eastermost Point of the Arabian Coast, it lies in 22. 20. N. Lat. There are some sandy Bays to the westward of it, with good riding in sair Weather; but that's no Comfort to the poor Seaman, while there is no Shelter against soul Weather. If you are bound from hence for the Persian Gulph, keep the Shore aboard as much as you can, especially from April to June.

From hence to Muscat the Land falling off to the N, the Course lies N.N.W. tho the Shore goes in N.W. by W. the distance is 27 Ls, so that from Mecha in the Arabian Gulph to Muscat, at the Mouth of the Opening to the Persian Gulph, is about 320 Ls, or 960 Miles from W. to E. and N. or N.E. a tedious Coast, without Shelter and full of innumerable Dangers and Hazards from contrary Winds and want of good Harbours, as above.

Before you come to Muscat, about 12 Ls short, are two Hills which make like Ass's Ears, and they are call'd so by the Seamen: After you pass those Ears, you open the Towers and Walls on the Tops of the Hills at Muscat, which you see between the broken Cliss of the Point before you; also you make an Island which lies off shore, a little to the northward of the Harbour of Muscat.

This is a terrible Shore too for the Sailors: For in some places you have no Bottom within half Musket shot of the Shore,

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From hence to Kaysun is 29 Ls, all a plain Strand; the Land behind is high and mountainous, and may be seen 10 Ls at Sca, but low by the Shore, and full of Villages, but an unhospitable starving Country, Provisions bad, scarce, and dear, and even fresh Water at an exorbitant rate: The Place is known by two Starts of Land upon the Point, which the Sailots call the Asses Ears, and at sirst indeed they make like such; they may be seen near 12 Ls off. When the Point bears N. by W. from you, and the Ears E. by N. half N. you will see the Town of Kaysun, and another to the E. of it call'd Durja; there you may ride a little to the N.W. in what depth you please.

From this Road to Cape Fortuack, or Cape Futtock, is 14 Ls, the Course E.N.E. the Shore just as before, low and plain, but the inland high and mountainous, and all truly barbarous.

Here you have the Coast a little more favourable, the Soundings fair at a distance, having not above 37 Fa. at 2 Ls off shore, tho 40 to 50 under the Cape, and a Mile and half from it. The Cape is so high 'tis seen 20 Ls to Sea.

To the northward of this Cape the Land falls in, and makes a deep Bay, not less than 10 Ls over. Just under the Cape, N.E. from the outermost Point of the Land, is good riding for a N.W. and westerly Wind, and tho bare, may be some Shelter from a S.W. (the best upon all the Coast) but to a S. or S.E. or even S. by W. Wind 'tis all open. There is good holding Ground, as a strong Clay, and a fandy Ouze, and what depth of Water you please, but 'tis a barbarous Place on shore. You are here in 15. 48. N. Lat. On the E. side of the Bay there is no riding, the Land high, the Shore dreadfully steep, and in many places no Ground within half a Mile of the Rocks.

From Cape Futtock the Course 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 shelter or comfort. There is a high bluss Land 2 Ls short of Dofar: When you come up with this Point, you will see the Port of Dofar lying E.N.E. half N. from you about 10 Miles: There is a Road indeed to anchor in, but no Harbour, nothing but a plain Strand: There is a deep Bay likewise on the Shore about 10 Ls short of Dosar, but no Road, no Shelter, and generally no Soundings. To anchor in Dosar Road bring the round high Point to bear W. by S. and a Point making a little low Hook on the E. of the

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Before you come to Muscat, about 12 Ls short, are two Hills which make like Ass Ears, and they are called so by the Scamen: After you pass those Ears, you open the Towers and Walls on the Tops of the Hills at Muscat, which you see between the broken Cliss of the Point before you; also you make an Island which lies off shore, a little to the northward

of the Harbour of Muscat.

This is a terrible Shore too for the Sailors: For in some places you have no Bottom within half Musket-shot of the Shore, and yet no Harbour or Port to run into in case of a Wind off Sea; so that it you chance to be upon the Coast when it is a a Lee-shore, your Anchors and Cables are of no use, and you must stretch off to Sea on one Hand or other, or you will be inevitably lost.

When you make the Mouth of the Port of Museat, if you intend to anchor in the Entrance, and not go within the Harbour, keep to the southward side, there you will have 15 Fa.

hard Sand.

N. B. The Variation of the Compass in this Port is 10 Deg.

This Port is call'd the Key of the Persian Gulph; but as the Navigation is chiefly carried on by Arabian Pirates and Rovers, they either take no Survey of the Coast, and so keep up no Sea Marks or Directions 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 Houses in a frightful manner) so the Gusts of Wind which come off from those Hills are dangerous, and sometimes as frightful to the Marines as the Rocks themselves, many of which lie under Water close to the Shore.

But the danger of this Port is as much from the Treachery of the Arabs as from the Storms and Rocks of the Coasts; for they are not only Pirates and Thieves, but Cheats in eve-

ry thing wherein you can deal with them.

They are good Pilots for the Gulph, tho not to be trusted, and are valued by all but the *Portuguese*, betwixt whom and them there is such an Aversion, that a *Portuguese* Commander dare not trust his Ship with one of their Pilots; and the *Portuguese* have of late so terrify'd them, that they hardly dare look out to Sca.

The Anchorage about this Port is very dangerous, lying so near the Rocks, and the Water so very deep; and even in the Road it is little better: The Mole or Basin is indeed safe, but is a Cove rather than a Mole: In a word, 'tis a Road no body goes to, but those that are oblig'd to it by Business or Distress.

Sailing Directions for the Coa

From Muscat the Land trends away up towards the Gulph, not so mountainous as before, but a defart wild Coast, sew Towns, not one River or Harbour for a great way; nor have we been able to obtain any exact Account of the Soundings

upon the Shore, or any Survey of the Coast.

Muscat is a good Port on many Accounts, especially compared with the Coast mention'd above. The Mole, as it is call'd, is able to receive 50 to 60 sail of stout Ships: 'Tis a strange Coast 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 some Islands which lie 2 Ls to the N.W. as also by Watch-Towers and little Forts upon the Rocks; those Rocks are black, as are all the Rocks which the Country is full of; for on the Sea Coast for above 40 Ls there is neither Tree, Bush, or Shrub, nor any Land-Mark to guide Sailors by.

Muscat is just under the Tropick, in Lat. 23 and half, N. From hence, I say, the Coast of Arabia is not survey'd farther on that side, nor is there any Course for Shipping employ'd by the Europeans on that side, to the Entrance of the Gulph: If you are bound to the Gulph of Persia, you must keep the Shore on board as long as you can, and stand then over to the eastward for the Indian Shore, or for Din Head on the Coast

of Guzurat.

From Din Head your best Course for the Gulph is first N.W. by N. to Cape Goadwell in 25 d. 40 m. N. and from the Meridian of Din 6. 10. or thereabouts. In this Course you cross the Tropick, Din Head being in Lat. 20. d 40. m. If you meet with variable Winds in this Passage at W.N.W. and N.N.W. or thereabouts, your best way is to stand in for the Shore, and ply it up by help of the Land Breezes which you will have in the night, and also a Current which sets into the Gulph: Only do not stand too near the Shore in the night, less being deceived by the low Lands, you run on Shore, when you think you have given the Land birth enough.

From Cape Goadwell the Course is W. by N. to the Point of Jasques, the Variation of the Compass being allow'd: The E. Point of the Road lies in Lat. 25. 30. N. low Land, and not easy to be seen at a distance, or to be known when it is seen. About 8 Ls short of it, there is a very great round Mountain call'd de Ehowers, with a Swamp and Trees on the Middle of it very singular: This will guide you to the Coast, for 'tis seen all the way, but it stands within the Land.

There is a *Payode*, or little Idol house on the E. Point of the Bay; and on the Cape it self is a white square Rock like a Tomb-stone, but it is not seen 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.E. then the E. Point of the Bay bears so also, and you are in the best of the Road.

To the northward of Cape Jasques comes in a River dist. about 5 Mile: Any Vessel not drawing above 10 to 11 Foot,

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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 Water, and the Tide does not rise above 7 Foot.

N. B. The Tide flows here N.E. and S.W.

From Cape Jasques the Course is N. by W. and N.N.W. into the Gulph; and if you are bound for Gombaroon, your business is first to make the low Point of Combarick, or Bombarique, then your Course is N.W. 7 Ls.

N. B. Between these two Points the opposite Coast of Arabia is the narrowest part of the Entrance into the Gulph of Persia, where it is not more than 12 to 15 Ls over E. and W. The depth of Water is from 20 Fa. on the Persian 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 Castle, when it bears N. by W. half W. There is a Shoal lies off from the Point sull a L from the Shore: You have 3 Fa. upon it at the shoalest; but it is so steep too, that there is 24 Fa. within half a Mile of it. It may be known by the Water changing its Colon upon it: In the night it is dangerous for great and deep Ships. To shun this Shoal keep off the Shore in 20 Fa. till you are sure you are past it; then you may come in again into 10 Fa. or less, as you please: The rest of the Shore in this Course is all clean, and without any danger, being steep too all the way to the 1ste of Ormus.

From this Cape to Ormus your Course lies N. by W. half W. 30 Ls. and from the S. side of the Island of Ormus to Gombaroon is N.W. half N. 20 Ls.

S.W. from the life of *Ormus* is an Island called *Larack*, dist. about 1 ½ L. you may go between them without any Danger, only give a Birth to the S.W. Point of *Ormus*, because its shoal for about 2 miles off, and steep too, having not full 3 Fa. upon it, and 10 within 2 Cables length of it: But your better Passage is between *Ormus* and the Main, where you have every where from 5 to 7 Fa.

From Gombaroon to Cong, a Portuguese Factory on the same Coast, the Course is S.W. between the Island Chismie and the Main dist. 25 Ls. At the S.W. Mouth of the Passage next to Cong lies a Shoal which reaches quite over from the Point to the Island: Keep to the side of the Main, and you have 6 to 7 Fa. upon it, and on the side of the Island 4 to 5 Fa.

At the bottom of this Gulph lies the City and Haven of Baffora, at the Mouth of the great River Euphrates: There are also several Islands on the Persian side of the Gulph, where some 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 Description need be given of this Coast.

N B. At the Isle of Carack, where the best Pearl are fish'd for, the Gulph is 60 Ls broad; and from Cape Jasques to Bassora is 210 Ls N.W. by W.

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furgues, the variation of the Compals being allow'd: The E. Point of the Road lies in Lat. 25. 30. N. low Land, and not easy to be seen at a distance, or to be known when it is About 8 Ls short of it, there is a very great round Mountain call'd de Ehowers, with a Swamp and Trees on the Middle of it very fingular: This will guide you to the Coast, for 'tis feen all the way, but it stands within the Land.

There is a Pagode, or little Idol house on the E. Point of the Bay; and on the Cape it felf is a white square Rock like a Tomb-stone, but it is not seen 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 also, and you are in the best of the Road.

To the northward of Cape Jasques comes in a River dist. about 5 Mile: Any Vessel not drawing above 10 to 11 Foot,

Sailing Directions for the Coast of India Proper, f of Persia, and also the Coast of Malabar, to Ca of Ceylon exclusive.

AVING directed your failing into the Gulph of Persia, it is proper to add here for your Direction in coming out of the Gulph again, that having repast Cape Jasques, being bound for India, you must 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 so off from the Land till you are within 16 to 20 Ls of the River Sanda, which we suppose to be part of the Indus.

The Reason 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 after you have past the Tropick, especially come on as far as 20 d. S. of the Tropick, afterwards you will have the Winds eafterly.

When you are come the length of Sinda, go away S.E. and S.E. by S till you reach the Land to the Westward of Diu Head in 20 d. 50 m. you will have there 28 Fa. black ouzy Sand, and 8 Ls from the Shore, by which you will know the

Coast; the Water thick and slimy.

The River Sinda lies in 24 d. 45 m. N. Lat. the Land to the fouthward is very low, and not above 4 to 5 Fa. at 4 miles from the Shore: The Mouth of the River has a Bar, with not above 13 to 14 Foot Water at full Sea; if you would go in, bring an old white Monument to bear N.E. from you, and fleer directly with the Mark for the Bar, where if you find needful you may anchor without the Bar in 3 1 Fa. good Ground; then you may go over it at your Leifure, bringing the Monument half a Point more E. To go over the best of the Bar, steer away N.E. by E.

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The first Port of Trade within the River is Laribundare; but there is another place higher up, which is a large City, called Tatta: any Ship that can go 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 Diu Head the Course is S.E. by E. Diu is in 20 d. 52 m. it is a good Harbour, having 3 ± Fa. between the Island and the Main. Gogo lies 10 Ls within the Gulph of Cambaya: if you would go up thither N. by W. from the Dood Point at Gundeck, which is the westermost Point of the Gulph of Cambaya, bring the Island of Peram to bear W. from you at the dist. of 3 miles, and steer in with it N W. 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 strong, especially Spring
Tides, there being a very great Indrast.

From Gogo the Courle to Suratte is S.E. by E. if you go within the Shoals, you keep a little more to the E. to Swalley Hole.

The first Mark for this part of the Coast is a great broad Tree standing within the Land N.B. above Swalley Hole; our Sailors call it the Devil's Tree. From this place you go away S. till you see another broad Tree with a House, which they call a Pagoda, about a mile to the northward of it.

The River of Suratte does not open till you are to the southward of it a good way, the N. Point of the River stretching thwart the Mouth of it S.W. you will see the Town over the Land, and before you see the Land. Three Ls from the

River of Suracte has Swalley Hole, nam'd above: If you would anchor before Suracte, bring the two great Trees S.S.E. and anchor in 8 Fa. just by the Bar; you have but $3\frac{2}{3}$

Fa. upon the Bar at the best of the Tide.

Due S. from Sandy Point, or Sandy Island, which lies at the Mouth of the Bar of Suratte, lies the Island, Factory and Town of Pombay, dist. 125 Ls. There is no Factory of the English, or any other European Nation, in all the Country between them, except a small Portuguese House at St Johns, of very little import but to wood and water at, in their Run to the Gulph of Persia, and except Jarapore of the like use.

The Town and Castle of Bombay is on the S. side of the Island: just within that which they call the Old Woman's Island, and S.E. from the Old Woman's Island there is a dangerous sink Rock, which lies very much in the Fair Way to the Harbour. There are abundance of Marks to know the Entrance

into Bombay, and to flun this Rock.

First, observe the 7 Trees above the Cape called Malabar Point, standing on the highest Land of Bombay; 3 stand to the E. and 4 to the W. of the Opening to the Island: Then observe a single Cocoa-Tree standing on the Old Woman's Island; bring that Tree into the opening between the 7 Trees, that brings you just upon the sunk Rock in the Fair Way; but bring the single great Tree, which stands on the highest Land of Bombay, on the middle of a second Range of Trees, on the Old Woman's Island; these bring you clear of the Danger.

Also to know when you are clear of it, bring the great Tree upon the Old Woman's Island to the westward of all the 7 Trees first mention'd; then you are certainly to the northward of the sunk Rock; and if you are to the eastward of the seven Trees, you are sure that you are to the southward of it.

But if you would go to the eastward of this Rock, bring Mazagon House open to the eastward, and right with the east-crinost Angle of the N E. Bastion of the Town; and keep that Course till you bring the great Tree to the westward of the seven Trees; then you may be sure you are to the eastward of the Rock.

Bombay is in an Island Lat. 19 d. there is an Island to the N. of it called Salfet, but the Passage between them is difficult. N. of Salfet there is another Island, on the N.E. Point of which there is a small Fort, or House rather, within which Ships may run up and anchor in a Road 5 Ls within the Channel; but they must take a Pilot to go in. On the S. Point is a Church formerly built by the Portuguese, called Ecclesia Paloremo.

There are 4 Forts upon the Island Salset, whereof 3 are feated upon the Passage between the Island and Bombay Island, and is called Colay: One is at the S.E. Point; keep off from the Point at this Fort, for the Shore is soul, and many Rocks lie off in the Sea: the next is called Bandura, from thence you have 3 to 4 Fa. all the way to the third Fort, which is called Salset, at the Mouth of a Creek; there

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hereof 3 are and Bombay oint; keep off ul, and many andura, from he third Fort, Creek; there

From Tamana to Goa the Water is deeper, but the Fair Way is interrupted by a great Cluster of Rocks called the Rocks of Vingrola, or the Camarthes.

From the Island of Choul to Goa is 85 Ls, the Course generally S.E. In the middle of the way between is another Rogipore in 16. 37. N. Lat. where there is a French Factory. The River is navigable a confiderable way up; but under the N. Point, or N.W. is a very fine Bay within the River, where there is 7 to 8 Fa. good Ground, and secure from all Winds: if

you would go farther up, you may have a Pilot.

From Regipore to the Island of Salfet S. of Goa is 40 Ls, the Course S.E. by S. Goa stands in an Island, with an Inlet of Water on both fides; fo that the Harbour, which is the most capacious 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 Island Salset, too long to describe here: All Simps that go in here take a Pilot, unless extremely well acquainted with the Place: The biggest Ship may ride in great safety in the Bay.

From Goa the Course is S.E. to Carwar 12 Ls. English Factory. When the Islands or Rocks of Carwar, call'd the Duckey, bear N.N.W. half N. and a small Rock which lies in the Road opens with the Mand India Diva N.by W. half W. dift. 2 Ls, then you are in the best of the Road; or you may anchor abreast of Diva, the Body of the Island bearing N.E. by E. about 2 miles and half off; there you may lie in 10 1 Fa. the S. Point of Carwar bearing N. by E.

The Passage into Carwar Bay is between some craggy Rocks which they call Duckey, and the Island near the S. Point: In the Bay there is a small Cove which goes in S.E. & E. Here small Ships lie secure from all Winds; and near the Entrance of te there is a little Hook, where Ships may ride very fafe in a Fa. and may be fecure from all the westerly Monfons.

N' B. You may go in and out here on any fide of the Duckey Rocks, without a Pilot, and without any Danger.

There is 7 to 8 Fa. in either Channel ouzy Ground.

From Carwar to Annanore, a Portuguese Fort and Factory, the Course is S.E. half casterly 9 Ls. Off of Annanore W. by S. lie a Cluster of small Islands, which they call the Pigeon Islands; they lie from the S. Point of Annanore S. by E. about 5 Ls. Off of the Point which the Portuguese Castle stands upon, lies a Shoal or Riff of Sand running out far to Sea, which must be carefully provided against.

From Annanore the Coast goes away still S.E. by S. 18 Ls to Basselore, or Bagua, a Factory of Dutch, and another Danish being upon the same River. There is good anchoring at a L off Shore without the Rocks in 7 1 Fa. good Ground: But from the northermost 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 chuse to go in there: The English Fort here is called Moor's Fort, lying to the S E. of the other Dutch Fort.

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N. B. There is a strong Castle at the Town of Bombay, and good Riding before it, in 4 ? Fa. well shelter'd from

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most Winds that blow.

Due S. of *Bombay*, or S. by W. in the *Fair Way* along the Coast he *Hannary* and *Cannary*, two little Islands, in Lat. 18. 51 dist. from *Bombay Castle* 11 miles; on the outermost is a small Fort or strong House: They lie a L assurder E. and W. but there is no passing between them, the Ground is all so rocky and soul; nor 1s it safe, unless you are well acquainted, to go between them and the Main. The *Fair Way* lies without them both in 8, and 9 to 12 Fa.

From these Islands the Coast trends away S.S.E. to Choul, a Datch Fort and Factory, dist. about 6 or 8Ls. This Fort stands at the Mouth of a large River navigable, far up, and a very good Channel, having 8 to 9 Fa. in the Fair Way; the Dutch have also 4 little Forts more, and 2 of note, several Ls within the River, viz. Dunde and Rogipore, &c. There is 7 to 8 Fa Water higher up, and a very good Channel all the way, clear and good anchoring Ground; they that go in here, and are

not acquainted, take a Dutch Pilot.

From Choul the Coast lies E.N.E. to Dabul, another English Factory, dist. 10 Ls: here also is a good River, the Entrance wide and deep, but not so clear as the other, for a large Rist of Sand runs out from the N. Point of the Entrance almost half thwart the Mouth of the River; also the S. side is rocky and soul, and therefore the Fair Way is in the Mid-Channel: However, if you are bound in, 'tis best to call for a Pilot. Upon all this Coast you have a variety of good Roads; but in sailing along the southward you must give the Shore a Birth of 2 or 3 Ls, and then you have in the Fair Way an even Shore, and an equal Depth of from 7 to 8 Fa. seldom more, seldom less, all the way from the Island of Choul to the Watering-place at Tannana.

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From Annanore the Coast goes away still S.E. by S. 18 L.s. to Busselore, or Bagua, a Factory of Dutch, and another Danish being upon the same River. There is good anchoring at a L off Shore without the Rocks in 7 ! Fa. good Ground: But from the northermost Point of the Creek 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 chuse to go in there: The English Fort here is called Moor's Fort, lying to the S E. of the other Dutch Fort.

S.E. by E. from Moor's Fort the next European Factory is Manguilore, being the Frontier or first Port on the Coast of Malabar; it belongs to the Portuguese: Here is a good Harbour, but a foul Road, and Ships which are bound along the Coast give it a good Birth, and keep off in 15 to 21 Fa. 'tis

dift. from Moor's Fort 12 to 13 Ls.

From Manguilore to Cannanore, a Fort belonging to the Dutch, the Course is also S.S.E. Here is a very good Road in 7 to 10 Fa. a L or two off Shore, as is usual on this Coast.

Five Ls from Cannanore S.E. lies Tellechery, an English Factory; it lies in a Bay into which two Rivers empty themselves, but there are so many Rocks lie in the Entrance, that great Ships chule to ride in the open Sea 3 Ls from the Port; if you would go in in imaller Veffels, you had best call for a Pilot at the Factory. From hence it is S.S.E. to Calicut 10 Ls. From Goa to this Port is 82 Ls along the same Coast, and the Course the same almost all the way, namely S.E.

Calicut is also an English Factory, and much visited by the English Ships, the you have no Harbour here; but in this Fort, as has been often observ'd on this Coast, the best 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 13 Fa. good ouzy Sand: you will know the Town, tho you can not fee it in the Road without the help of Glasses, by 3 white Spires at an equal distance one from another, the like is not upon all the Coast.

If you have a mind to ride nearer, you may come into 5 Fa. in the fame Road and good Ground; bring the 4 Tombs to the northward of the Town to bear E.N.E. from you half N. and the northermost Land in fight N by W. half W. at the dift. of 2 or 3 miles from the Shore, and you will have a good

In Lat. 11. 29 N. lies the Sacrifie'd Rock N.E. by E. a great Rock, or rather a Ledge of Rocks, in the Fair IFay, for all this Coast: a mile and half from them is 15 Fa. Those Rocks lie not much above I L from the Shore; they are only a Stone Riff or Reef, pretty high; you may go fafe between

Sailing Directions for the Coasts

them and the Shore with fome Caution. They are fo high,

that you may fee them at least 4 or 5 Ls off at Sea.

Thete Rocks are the only Interruption to the failing along the whole Coast of India and Malabar, at a L to 2 Ls dist. from the Shore, and at an equal Depth of Water: but here you must either run in nearer, as above, to pass between the laid Rocks and the Main, or keep a large Offing to give the Rocks a Birth, in 14 to 15 Fa.

After you have past these Rocks, you stand in to the same Course again, and keep the same dist. from the Shore, viz. 2

Ls, and fo go on S.S.E. to Cocheen 33 Ls.

Cocheen is a Dutch Factory between Calicut and this Port: There are two others, where there are also good Roads for Shipping, viz. Panian in Lat. 10. 45. and Crannanera in 10. 20. they are small 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 Cochin; but as it is no where above a L wide, the Ships ride very well without it, especially at Crannanera, where they ride in 5 to 6 Fa. within a mile of the Shoal.

This Shoal ends in a large round Riff of Sand, just on the N. fide of the Entrance into Cochin; and the Riff has 5 to 9 Fa. on it, in one part gradually shoaling to 3 Fa. and then becoming dry towards the Shore, yet it makes an excellent Harbour at Cochin, for within the Channel you ride close under the S. fide of the Risfin 6 to 7 Fa. within 2 miles of the If you would anchor in this Harbour, bring the Town to bear E.N.E. or N.E. by E. from you, or bring the Windmil on the Shore, and the Flagstaff on the Fort shut into one, and then you are in the best Anchoring-place, where you have good ouzy Sand, and 7 Fa. to 7 1 Water.

When you open the River from the N. the City or Town makes a very handsom Appearance, and the River seems capable of great Ships; but the Channel is uncertain and shoaly, to that you must not run up any farther than 6 Fa. as above. There is no Bar in the Harbour, but the River is shut up with a Bar, on which there is not above 4 Foot Water at low Tide,

and about 14 on the top of a Spring.

then opens t Small Veffel: it is in length There is length to th the Castle, a called Moody 12 to 28 Fa. fresh Water

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Sailing Directions from the Cape of Good Hope to Suratte, on the out or South side of the I



A VING directed the Sailor in his Course within the Island of Madagascar by the N.W. and from the Arabian Gulph to the Coast of India by the Coast of Arabia, it is needful to observe that many Naviga-

tors think it more convenient, as their Business requires, to go on from the Cape directly and without the Island of Madagascar, and perhaps without touching upon it; which is more frequent alfo, fince being by the new Settlement at the Cape sup-

Shore aboa Galla; ther Night; for of Rocks ab

As foon being no otl board till y place on the

From Cocheen the next 2 Factories are also Dutch, viz. Carhigh, napole and Quilon, besides a small Fort and Settlement upon along the Illand at Porcat, or as it is called by the Portuguese, Labra de Porcas, the Island or Colony of Hogs: The Water s dist. which makes this an Island is an Inland Branch of the Sea, not here a River; but it runs parallel with the Sea, from the Harbour n the of Cocheen to Carnapole, where it takes in the River, and e the then opens together into the Sca, making a very good Harbour. Small Vessels may pass thro' this Channel, but not great Ships; : fame

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it is in length about 70 miles.

There is one Outlet in the middle, or rather \(\frac{1}{2}\) d. of the length to the northward, which comes in to the Sea just by the Castle, and makes a good Road in the Ossing, 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

fresh Water and fresh Provisions.

From this Harbour of Cocheen the Shore falls off more to the E. and the Course lies to Quilon full S.E. as it does also to Anjengo, which is the next Factory.

Anjengo, which is the next Factory.

N. B. There is a good Road in the Mouth of the Opening mention'd above at Carnapole, in 12 Fa. and farther out also in 25 to 30 Fa. Likewise at Quilon a Dutch Settlement is very good Anchoring all along the Coast S.

in 10 to 16 Fa. almost to Anjengo.

Anjengo is an English Factory, the farthest S. upon this Coast; it lies in Lat. 8. 48. and dist. from Cocheen 30 Ls or just 1 \(\frac{1}{2}\) deg. If you would come to an Anchor here, bring the Flagstaff on the Fort N.N.E. from you, and the northermost Land in fight N.N.W. half W. and there you will have 11 Fa. good Ground; or you may go with the Land as above, and the Flagstaff N.E. half N. both give you a good safe Road, and within 2 miles off Shore. Between this and Quilon in Educay, belonging to the Danes.

From Anjengo the Land trends away to Cape Comareen or Comaroon, being the fouthermost Land of the Coast of Malabar and India, in Lat. 7. 40. N. opposite to the Island of Ceyton, and opening with the Channel leading between Ceyton

and the Main.

hood Hope to the Coast of India and the Port of the Island of Madagascar.

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Shore aboard by Night or Day, till you draw near Point de Galla; then you must keep in 24 Fa. by Day, and 30 by Night; for to the southward of the said Point runs off a Ledge of Rocks about a mile and a half 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 clote on board till you come up as high as Columbo, which is the chief place on the Island; it lies in about Lat. 7 d. N. before you

a Bar, on which there is not above 4 Foot Water at low Tide, and about 14 on the top of a Spring.

Ceylon, and and the Ceylon and the Main

Sailing Directions from the Cape of Good Hope to Suratte, on the out or South side of the Is

A VING directed the Sailor in his Course within the Island of Madagasicar by the N.W. and from the Arabian Gulph to the Coast of India by the Coast of Arabia, it is needful to observe that many Naviga-

tors think it more convenient, as their Business requires, to go on from the Cape directly and without the Island of Madagascar, and perhaps without touching upon it; which is more frequent also, since being by the new Settlement at the Cape supply'd with Stores of all things necessary, they have not the same Occasion as formerly to go out of their Course to Madagascar, or to the Morusboes Islands.

To steer this Course you must fail from the Cape S.S.E. till you come into Lat. 37. S. and this is needful, that you may meet with westerly Winds, which you are more likely to do in that Course than by the other way, and for want of which

many Ships have loft their Passage.

When you come into Lat. 37 d. S. shape your Course E. or thereabouts, and keep it so till you have made about 61 to 62 d. Longit. from the Cape, endeavouring in that Course to make the Islands of St. Paul and Amsterdam: This is of the utmost Importance for the shaping your Course afterwards. Being in that Latitude, go on still N.N.E. easterly, till you have by an exact Reckoning only 15 d. S. Lat. and 72 or at least 71 d. Longit. from the Cape.

Then steer due N. till you cross the Line; and continue your Course till you come into 7 d. N. Lat. minding to keep the aforesaid Longit. of 72 d. taking great care that you are not set to the westward by the Current which sets out of the Bay of Bengal; and being arriv'd in the abovesaid Lat. of 7 d. and keeping in 72d Longit. you must steer W. to get sight of the S.E. end of the Island of Ceylon; and being in sight of the Island, and in the Lat 7 d as above, you are to the northward of the Abasses, or Baxios, which are 2 Parcels of Rocks, lying the one in 6 d. 10 in. and the other in 6.25.

In failing from hence to the fouthward, if in the Night, you must not keep less than 3 Ls off the Shore, in which Offing you will find no less than 25 Fa. but in the Day-time you may keep the Shore nearer aboard; these Rocks shewing themselves by their much breaking, may be easily shunn'd. Between the Shore and the great Bassias is 11 and 12 Fa. sandy Ground. Being to the southward of these Rocks, you may keep the

Shore about Galla; then Night; for to f Rocks about

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with bar and India, in Lat. 7. 40. N. opposite to the Island of Ceylon, and opening with the Channel leading between Ceylon and the Main.

ood Hope to the Coast of India and the Port of side of the Island of Madagascar.

Shore aboard by Night or Day, till you draw near Point de Galla; then you must 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 half into the Sea.

As foon as you have doubled the faid Point de Galla, there being no other Danger, you ought to keep the Shore close on board till you come up as high as Columbo, which is the chief place on the Mand; it lies in about Lat. 7 d. N. before you cross over for Cape Comareen, for that the N. casterly Wind blows fresh, and the Current between Tuttacorine and Ceylon

fets extraordinary strong to the N.W.

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If by any Shifts of Wind, or by the Current fetting out of the Bay of Bengal, or any other Accident, you fall in with the S. end of Ceylon, or any part of the W. side 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 Island lies in 5. 50. N. you ought to take great care to make the Island if possible on the S.E. side, in about 7 d. as aforesaid; otherwise it may happen that the Current which sets strong to the westward, may occasion the Loss of your Passage.

From Columbo you must steer N. W. to get fight of Cape Comarcen, which lies in Lat. 7 d. 45 m. N. The Cape is to be known at a great distance by several high Mountains 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 just at the S.W. part of the said Cape: you may also know this Cape by a fingle high Mountain which is right over it, and under which stands a great Range of Trees of an equal height. You may fometimes find it difficult to double Cape Comareen, tho you have it close aboard, by reason of a Wind and Current that always fets to the fouthward there: But you must take the Opportunity, when the Winds as well as the Currents are not against 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 past the Cape, you ought to keep the Shore as close aboard as you can in 12 Fa. and there anchor rill Night, waiting for a Land-Breeze, with which you must stand off to 30 Fa. where you must anchor again to wait for the next Sea-Breeze; and when that comes, make fail along the Shore in 12 Fa. then anchor again, and to on, minding always not to be under fail while the Tide of Ebb fets to the Southward.

Sailing

Sailing Directions for the Coast of Coromandel, from of Malabar, to Sugar Loaf-hill and Visigapatam Kingdom of Golconda, exclusive.

S Cape Comareen is the fouthermost Point of Malabar, to before we leave it we ought to take notice, that W.N.W. from the Cape 20 Ls, there lies an unhappy Rock in the Sea, not above as big as the Hull of a good Ship, and even with the Water's

Edge, so that it cannot be seen till you are just upon it. Many a good Ship has been lost upon it, and therefore 'tis needful publick notice should be given of it on all proper Occasions.

Hammon Hiel, and Mannare Hoil, are the first Lands on the South Coast of Coromandel; and being near the W. end of the Rist of Mannare, which blocks up the Navigation between Covton and the Main, from the Point of the Island call'd Hammon Hiel by the Pilots, to Aderanpatanam, the first known Place upon the Main, is 17 Ls, the Course N.W. by N. Between 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 2 Fa. Water at most.

The whole Shore is a flat Bight or Bay quite to Calimere Point: The strait Course to the Point from the Hiel, and not to go into the Bay of Aderanpatanam, is N. by E and S. by W. 15 to 16 Ls; so 'tis nearer to the Cape than to the Bottom of

the Bay.

In the Fair way of this Course you have 8 to 10 Fa. till you come near the Rist, then it shoals gradually; but with great Ships you must come no nearer than 5 Fa. When you are past the Rist, and about the Point, you may keep the Shore as close aboard as you please, that is, in 4 and 5 Fa. As soon as the Calimer Pagod bears W.S.W. and S.W. by W. from you, you may depend that you are past the Rist to the northward, and safe: It you are still to the southward of it, the Pagode will bear N.W. from you; you have not then above 4 to 5 Fa. at 4 Ls from the Shore, but very good fandy Ground.

If you come from Point Pedro on the Island of Ceylon, and would make Cape Calimere, your Course is N. by W. half W. or N.W. by N. about 13 Ls: You have 8 to 10 Fa. all the Course, till you come to the Shoalings of Calimer Riff; as soon as you find the depth abate, you must stop your Course, and come no nearer than, as above, in 5 Fa. unless you are in

a fmall Vessel, then do as you pleafe.

Being now entred upon the Coast of Coromandel, and to sail to the N. the first Place of note is the River and Port of Negapatam, a Factory belonging to the Dutch, 9 † Ls distance from Calimer, the Course due N. for the Coast lies here N. and E. Now Course when he shore which is all good

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River, and may anchor just as you will, as you draw more or less Water: The River is not navigable.

Six Ls from Porta Nova lies Tegapatenam, or Fort St. David, Lat. 12. 4. N. a strong Fort and Factory of the English, the Course N. half E. or S. half W. Keep an Offing of 4 Miles, where you will have 8 to 10 Fa. all the way good Ground, and good anchoring, wherever your Occasion requires it; farther out you have 17 to 25 Fa. and then any depth whatever.

Fort St. David may be known off at Sea, by a Fort built of red Stone on the other fide of the River, belonging to the Indians, as also by a great red Paged which stands on a Hill 4 Miles up the Country. From the N. Point of the River runs out a Spit of Sand, which you must take care of; it runs out directly E. into the Sea. To the northward of the Fort the Dutch have also a Factory within Gun-shot of the River; this River here is larger than any before it, but yet of no ule for Navigation, except for fresh Water: You may anchor before the Dutch Factory also in 4 to 5 Fa.

Four Ls from Fort St. David N.E. by N. half N. lies Pullichery: Here is a Trade, but no Factory; and a finall River 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 Ridge of Pullichery: You need not be directed to go without it, feeing you can't go near it; but keep off 4 or 5 Miles from it in 6 to 7 Fa. because there are Shoalings nearer to it. This Ridge runs into the Land also, and makes there like a Mountain, and is call'd by the same Name.

From Pullichery to Calmere is 12 flort Miles N.E. it is known by a white Pagode or Idol Temple near it: Here you keep still the same Offing of 4 Miles, but have the Water somewhat deeper to 10 and 12 Fa. good hard Sand.

From Calmore to Conimore is 9 Ls; there are force Villages on the Shore between, and a long Grove with a Tagode at the End of it, which is a Sea Mark to the Coast: But here are no Creeks or Harbours, only a clear Strand as before, and the same Ossing; only that off of the Grove there lies a Riss of Sand which stretches a Mile into the Sea, 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 your Ossing, and not run in there. There is another English Factory at Conimore, and a good Road before it: You have there also a thick Grove, and two Pagodas to know the Place by; there is a River at Conimore, but you may ride beyond, or to the north-

will bear N.W. from you; you have not then above 4 to 5 Fa. at 4 Ls from the Shore, but very good fandy Ground.

If you come from Point Pedro on the Island of Ceylon, and would make Cape Calimere, your Course is N. by W. half W. or N.W. by N. about 13 Ls: You have 8 to 10 Fa. all the Course, till you come to the Shoalings of Calimer Riff; as soon as you find the depth abate, you must stop your Course, and come no nearer than, as above, in 5 Fa. unless you are in a small Vessel, then do as you please.

Being now entred upon the Coast of Coromandel, and to sail to the N. the sirst Place of note is the River and Port of Negapatann, a Factory belonging to the Dutch, 9 \(\frac{1}{2}\) Ls distance from Calimer, the Course due N. for the Coast lies here N. and S. Your Course runs along by the Shore, which is all good and clear, and you have nothing to do but to keep the depth of Water, viz \(\frac{1}{2}\) to 6 Fa. The Place is known by a Pagode which stands about \(\frac{1}{2}\) Miles to the northward of the River, and is seen in the Ossing very sair. Here is good anchoring in the Road before the Town, but no Haven; for the Rivers here are all small, being but of a short Course.

Fourteen Miles from Negapatam, the Course N. half W. lies Kavical; 'tis a finall place upon a little River, and Ships ride fometimes there as Occasion requires: You go to it all along Shore, only keep towards the N. Point a little off the Shore, being somewhat S. The River here is of finall use, beauty often dry

ing often dry.

From hence, the Course being the same, you go on to Tranquebar 8 Miles all along Shore: Here is a Danish Factory (or Colony rather) for they seem to plant the Country there. Near it is a River, and sometimes fresh Water, but no Navigation, for sometimes it is quite dry also: You may ride very

easy here in 6 to 7 Fa. off of the Factory.

From Tranquebar to Calderon the Coast is still the same due N distance about 6 Ls. There are two finall Places and dry Rivers between, but of no import, call'd Laurepatenam and Truneldeanes; there is a River too, bur 'tis dry. At Calderon lies off a Riff of Sand, which you must take heed of, that is, keep off in 9 to 10 Fa. for tho it runs off far, yet it finks down into 5, 7 to 9 Fa. at last, and so you lose it. There is a River within the Riff, or on the W. fide of it; but you must go about the Riss 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 cannot go far in, only to take fresh Water, which is very good here. The Riff is steep on both fides, to you must not dare to come nearer to it than 6 to At the End of this Riff, N.N.W. from Calderon 4 Ls, lies Porta Nova; the Mark to know it by is four Pagodas on the Shore: In the way between bring Porta Nova due W. When you are 3 Ls off Shore, and the two fouthermost Pagodas shut into one, so that you can see but three, then you have a good Road just before the Mouth of the

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fee but three, outh of the known by a white *Pagode* or Idol Temple near it: Here you keep still the same Offing of 4 Miles, but have the Water somewhat deeper to 10 and 12 Fa. good hard Sand.

From Calmore to Conimore is 9 Ls; there are fome Villages on the Shore between, and a long Grove with a Pagode at the End of it, which is a Sea Mark to the Coast: But here are no Creeks or Harbours, only a clear Strand as before, and the fame Offing; only that off of the Grove there lies a Riff of Sand which stretches a Mile into the Sea, 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 your Offing, and There is another English Factory at Coninot run in there. more, and a good Road before it: You have there also a thick Grove, and two Pagodas 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 Cannonshot of the Shore; so that 'tis all one with a Harbour, the Sand breaking off the Sea. Near Conimore is a finall Factory of the Dutch at Saderassapatenam, where the Road is under shelter of another Riss of Sand lying N. from it: The Dutch call it Coveloing.

Seven Ls distance from Conimore lies Cabelon, another Dutch Factory, the Course still N. easterly or N. by E. Between them are the seven Pagodas, a known coasting Mark to know the Places by. Thwart from these Pagodas, as if set on purpose to warn you, take care to keep a larger Offing than before, the Ground being soul and stony; nor must you anchor any where thereabouts, till you are at least 1. L from them to the northward: Beyond them the Coast varies a little

to the E. and you go away N. by E. and N.N.E.

From Cabelon to Fort St. George, or Madrassapatam, is 5 Ls; there is a Place between called St. Theme, formerly Portuguese, since French; but it has no relation to Navigation, neither Road, nor Creek, nor any Business done there lately. The Road at Fort St. George is well known, being the chief Factory of the English on the whole Coast; yet here is no Harbour for Ships of burden, but they load and unload in the open Road, which is very good, hard and holding Sand, and 8 to 9 Fa. Water.

Here you meet with the first Sand or Shoal that you will have on the whole Coast, lying off in the Sea; this is call'd the Rists of Natoer, and the Manoes; they he N.N.E. from Fort St. George: There is a Land-Riss and a Sea-Riss; the Mark for them is a sinall Grove of Trees on the Shore, the Top of them growing slat and even: By these, which they call the Table, you sail along Shore, keeping without in 9 to 10 Fa. In about the usual 4 Miles Offing you have 12 to 13 Fa. Bring the Hag-Stass on Fort St. George to bear W.N.W. And you may anchor secure at a Mile and half distance from the Riss.

The Sea-Riff is in the same Point of the Compass from the Land-Riff, as the Land Riff is from Fort St. George, and the same distance, viz. 8 Miles: Keep your Lead going while you

Sailing Directions for the Coast.

are in the Offing, and keep in 9 to 12 Fa. till you come into stiff Clay Ground: Then go on in the same Course N.N.E. till you bring 2 Cocoa Trees, which you will see upon the Coast, in one with a small Grove which you will see there also: There if you are in 3 or 4 Miles Offing, you are at the End of the Land-Riff; then keep on the same Course, till you open the two Cocoa Trees again from the Grove about a Hand-spike's length; and then go away N.E. into 5 or 6 Fa. and hold that Course and Depth till you find 7 to 9 Fa. stiff Clay Ground, and some Sand: Then you may be sure you are past the Sea-Riff also, and may stand in towards the Shore in the usual Ofsing of 4 Mile, which is as a Fair Way to all this Coast.

As you fail along this Shore, you must take special care, and mind the Marks of this Land-Riss, for it is very deceiful, and shoals all of a sudden by whole Fathoms, as fast as you can heave the Lead; but if you mark the Alterations of the Depths, you may be sure you are drawing near the Riss, of which those Trees will give you notice: You must come no nearer it than 15 or 8 Fa. if you come nearer you will find your self at a loss; for if you come into 6 Fa. your next Cast will be but 3 Fa. or 17 Foot; so that with a great Ship it is very dangerous, tho it is not shoaler than 14 or 15 Foot: This Depth is about two Miles os? Shore, and it is in breadth about two Musket-shot over; the Soundings within it are as uneven as the aforeslaid, viz. 2, 5, 6 and 7 Fa.

Note, That the Ends of the Land-Riff and Sea-Riff bear from each other N.E. by E. and S.W. by W. near 2 Miles: The Sea-Riff lies along the Shore N.E. by N. and S.W. by S. about 8 Miles Offing will carry you without it 5 you may keep along the Edge of it, in 8, 7 and 6 Fa. but come not any near-cr, before you have the Flag-Staff W. and by S. from you; and then you may fafely fland over the Riff towards the Shore with a foutherly Wind, but with a northerly Wind the Flag-Staff must bear due S.W. from you, with Ships that draw from 13 to 16 Foot Water; but with small Craft of 9 or 10 Foot, you need take no notice of the Sea-Riff at all, for there is no less than 16 or 18 Foot upon it: Yet for those that are not well acquainted, 'tis fafest to keep the open Course, and go without all, rather than over the Riff.

From Fort St. George to Pullacat, not reckoning your going about the Sands and Riss above, the Course is N.N.E. northerly. Pullacat is a Dutch Factory in a little Inset of the Sea, where two Rivers come into the Gulph of it; yet here is no Harbour worth naming, but the Ships ride in the Road, as at Fort St. George, in 5 to 8 Fa. good Ground, and tolerably well shelter'd. The Rivers are not navigable here, or any where on this Coast, at least not for a great way.

To the N. of this Port lies another Sand-Rill running out into the Sea, much larger and longer than the Sea-Rill of Monnes, and firetches farther along the Shore, as well as farther into the Sea: It lies off of a small Place call'd Cycaraboeric; the Course to it is N. by W. distance from Pullacat 8 Ls; and from the N. end of this Rist, with a wide Channel between also, there begins another, not to be call'd a Rist but a large

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From Caletore the Shore makes a large Sweep, not deep enough to be call'd a Bay, and yet a little like a Crefeent, or like the Moon when near the Middle of the fecond Quarter. In this Bending are several small trading Places, tho no Factorics, as follows. From Caletore to Montipoli diff. 31 Ls, the Course between N. and N.E. by N. Between them are the finall Places of Penny, Carera, Gondegam, or Goedegan. Penny there is a dangerous Riff lies off Shore, running out into the Sea at least 4 Miles; keep in 14 to 16 Fa. there, and you are fure to be without it, and to be in 6 to 8 Miles Offing. There lies another Shoal off of Goedegam, a little way from the Shore; but as there is Water enough for small Veffels to go over it, and great Ships have no Bufinels there, or if they had do not come near the Shore, there need no other notice be raken of it.

When you are at Montipoli, you come into your old Fair Way, diffance, and depth again, which is 4 Miles Offing, and 8 to 9 Fa. Water; and so you keep on E.N.L. to Peripoli,

diffance 7 Ls.

N. B. From Montipoli S.E. by E. 16 Miles off in the Sea, lies a Shoal or Spit of Sand, flretching in length S.W. and N.E. for about 8 Ls; There is no danger on it for depth, for the Soundings are gradual and good; the louthermost end is the shoalest, and no where less than $3^{\frac{1}{2}}$ to 4 Fa. To that as you find it floaling by your Lead, you may keep an Offing according to what Water your Ship draws: Also you may go within it in 8 to 10 Fa. stiff Clay; but if you go near the Riff, you will find it landy, and by the Change of the Ground you will know you are coming towards it, and to may keep off again as you pleafe.

You will know the Coast between Montipoli and Petipoli, that is, Great and Little Poli, by a very remarkable Grove of Cocoa Trees, which lie along the Shore from right over the Town westward; they grow even and flat on the Top like a Table, and it is call'd the Table of Peripoli: Here you keep a large Offing, viz. to 8 Miles, and in 6 to 7 Fathe Shoalings being more gradual. At Petipoli the Dutch have a Factory, the last where they have any Fort on this Coast, till you enter the Coast of Orina. Off of Petipeli there is another Bank of Sand, but it lies farther out, and

there is a larger Channel between it and the Main.

That Riff of Sand lies E. from Petipoli almost 4 Ls off from the Main, and is generally 2 Ls broad, tharpning to the N. end in a Point; one part of it towards the sharp N. end is dry at low Water: The Riff has generally from 3 to 7 Fa. over it, and there is from 8 to 11 and 12 Fa in the Fair Way between, good strong Clay Ground. Towards the inner Edge of the Shoal is 10 Fa. steep, and good hard Sand. From hence you steer to Due Point, or, as others call it, the Point of Metha When you go from Petipoli for the Point, the Course is W. or at most W. by N. If from the N.E. end of the Shoal or Riff fpoken of, then 'tis N. by W. and N.N.W. former is 13 Ls, the latter but 18 Miles, but with this difference, that in the first Course you make only the Metha Point,

is no less than 16 or 18 Foot upon it: Yet for those that are not well acquainted, 'tis safest to keep the open Course, and go without all, rather than over the Riss.

From Fort St. George to Pullacat, not reckoning your going about the Sands and Riffs above, the Courfe is N.N.E. northerly. Pullacat is a Dutch Factory in a little Inlet of the Sea, where two Rivers come into the Gulph of it; yet here is no Harbour worth naming, but the Ships ride in the Road, as at Fort St. George, in 5 to 8 Fa. good Ground, and tolerably well flictter'd. The Rivers are not navigable here, or any where on this Coast, at least not for a great way.

To the N. of this Port lies another Sand-Riff running out into the Sca, much larger and longer than the Sea Riff of Monnoes, and firetches farther along the Shore, as well as farther into the Sea: It hesoff of a small Place call'd Cycaraboeric; the Course to it is N. by W. distance from Pullacat 8 Ls; and from the N. end of this Riss, with a wide Channel between also, there begins another, not to be call'd a Russ but a large Bank of Sand, stretching about 10 Ls in length, and in some places 3 Ls to 3 \frac{1}{2} broad: There is not above 1\frac{1}{2}, and at most 2 Fa. Water upon it, so that no great Ships must come near it.

In the Channel just mention'd, between the Sea and the Land-Riffs, you may go thro' with a great Ship in 3 \frac{1}{2} and 4 Fa. but when you go on northward, between the great Bank and the Main, you must borrow of the Main, for the Riff is very uncertain, and sometimes sleep too, sometimes slat off; therefore you must keep your Lead carefully going.

If you are at Pullacat, bound N. and would go without the Riff, as is far the fafeft way, keep heaving your Lead, and come no nearer than 8 to 12 Fa. of the outer Edge of the Riff; but fleer on with the Edge of the Riff, distance as above, N.N.E. If you have deepen'd your Water on any Occasion to 12 Fa. you must edge in again to 9 Fa. which will keep you enough off from the Riff; and it is needful to keep the Riff aboard, which is best done in that Depth.

Also if you would go to Macklepatanam, 'tis needful to keep as near the Riss as may be with safety, because of the Currents, which in July to August set to the N.E. and N.E. by N. easterly: But it you go right on, then steer due N. after you are past Petispole, which is beyond the Riss.

This great Sand is call'd the Riff of Armygoon, from a Village of that Name upon the Shore W. from it: This Village has N.N.W. from Putlacat; and N.N.W. from that, distance 8 1.s, on the N. fide of a River, is a small Hill up in the Country, from whence you may see the high Land of Pullatat, which is a Mark for the Place from the Off-side of the great Riff.

From hence to Caletore the Courle is N. casterly. Keep but 2 Miles Offing in this Courle, because of the Riff without, and you will have as good a Depth of Water in that Offing as you need, being 9 to 12 Fa. good hard Sand.

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rly. Keep Riff withthat Offing the Shoalings being more gradual. At Petipoli the Dateb have a Factory, the last where they have any Fort on this Coast, till you enter the Coast of Orina. Off of Petipolisthere is another Bank of Sand, but it lies surther out, and there is a larger Channel between it and the Main.

That Riff of Sand lies E. from Petipoli almost , Ls off from the Main, and is generally 2 Ls broad, fliarpning to the N. end in a Point; one part of it towards the sharp N. end is dry at low Water: The Riff has generally from 3 to 7 Fa. over it, and there is from 8 to 11 and 12 Fa in the Fair Way between, good strong Clay Ground. Towards the inner Edge of the Shoal is 10 Fa. steep, and good hard Sand. From hence you steer to Due Point, or, as others call it, the Point of Metha When you go from Petipoli fo. the Point, the Courle is W. or at most W. by N. If from the N.E. end of the Shoal or Riff spoken of, then'tis N. by W. and N.N.W. The former is 13 Ls, the latter but 18 Miles, but with this difference, that in the first Course you make only the Metha Point, or Due Head, whereas in the last Course from the Sand-head you keep off, and go about into Methlepatam Road, which is round the Point.

When you are in Massile patam, or Methlepatam Road, bring the great Tree, which stands over the River S.E. from the Town, to bear due W. from you; there you have a good Road, hard Sand, and 4 to 5 Fa. Water. There is both a Dutch and an English Factory at this Place, but the English is the chief; it lies in a deep Bight, which goes in N.W. of Due Point. There are two Rivers here on the N. side of the Point, but neither of them navigable: The Point is in 16 d. 8 m.

All along this Coast to the *Point*, there is a Flat or Shoal of Sand runs along the Shore, which they call a Land-Riff, but very improperly: At the *Point* indeed it runs out like a Riff; you must keep off at the distance of 8 Miles at least, and in going round the Riff, come no nearer than 6 Fa. with a great Ship.

From Methlepatam Road it is 14 Ls to Niffepore, the Course E.S.E. it is at the N. Point of the Bay. On the N. of the River at Methlepatam is another Land-Riss, which runs out into the Sea 4 Miles; but you may run over it without danger, with your Lead, in 4 to 7 Fa. but come no nearer the Land than 4 Fa. at your peril: The River is larger than usual for Rivers on this Coast, but not navigable; not often above 7 Foot Water, never above 12: And on the W. side of the Channel there is a great Shoal; small Vessels may go by it, and great Ships cannot go in at all, so you must try it with your Lead.

When you are in the Bay thwart the River, you will fee a very great Tree to the castward of the Town; bring the Tree N. by E. from you, then you are in the Mouth of the Channel. 2 Ls W. of this River lies the Nook called Ombeld, or Hamel Hole, where the Europeans frequently haul up their

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Ships upon extraordinary Occasions to careen, clean, tallow, grave, and sometimes even to sheath them; the place being as convenient for that purpose as can be where the Tide rifes so little upon the Flood. It is shoal off here, for at 8 mile from the Land, you have but 3 to 3 \(\frac{1}{2}\) Fa. soft Ouze; so you have nothing, to do but mind your Lead Night and Day upon all this Coast.

From Naffipore to Point Goordeware is 15 to 16 Ls, the Courte E.N.E. it is all along a clean Shore; keep in 12 to 16 Fa. and 2 \ L. offing. Four miles thort of the Point you will fee three Pajo las, which is the Mark to know the place by; they fland on the E. fide of the River Vifeeran, the first River we meet with on this Coast that has a Name. Off of Goordeware Point lies a Riff, which runs 4 long mile into the Sea; you must come no nearer it than 12 Fa. the Riff being steep, and the Soundings very uneven, especially coming from the westward; on the other side its better, and you may come within 6 or 7 Fa, with your Lead.

From Geordes are to Watfare Point the Course is N.E. measuring in a Line, fair cross the Bay, it is but 13. Ls from Point to Point: But to go round the Bight it would make 25 Ls at least. Here you have high Land and deep Water, the first being hilly and the latter 30 to 35 Fa. deep at 5 Ls offing; also in 2 miles you have 14 Fa. good landy hard Ground.

From Watfare the Coast goes away N. by E. and N.E. by N. and N.N.E. rounding to Biomlepatam 20 \(\frac{1}{2}\) Ls; the Course is along Shore here, with an offing of but 2 miles, till you come over against Panary or Ponday, where there are 9 or 10 great

Sailing Directions for the Coast of Orixa, and of the great River Ganges, vulgarly called the Ri

Stifigapatam is the last Factory on the Coast of Coromandel; so whatever trading places there may be on the Coast of Golconda, we see no Factories for a great way together: Canare Hill or Point we take to be fust; there is a small River, but with

no Navigation.

From Course Point it is a strait Coast, with small Variation, to Correlative, or Comparre, dist. 46 Ls; the Course all the way N.E. not above 1 ha Point varying. Neither are there any Towns or Trading-places of note on the Shore, or any Shoals or Sands, Sea-Riss or Land-Riss, sink Rocks or open Rocks, that are considerable in the whole Course; no nor any Harbours or Bays. Rivers or Bights, Inlets or Openings worth notice on the Coast, except a sew Rocks above Water off of Pandy; but its all an even Strand, the Depths and Offings almost equal, from 12 to 14 and 15 Fa. at from 1 L to 2 Ls off Shore, and very much equal and alike all the way.

From Carreparre to Manchepatam the Coast varies 1 Point to N E. by E. the dift. 3 Ls. Here the Land is less even, and

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and N.E. by the Courfe is till you come g or 10 great Rocks in the Sea, but they are high out of the Water, and so there is no Danger of them: Also there lie 3 or 4 great Rocks upon the Strand, which serve as a Mark to know the Town by. There is an English Factory at Visingapatam, 14 miles short of Bimlapatam. There is a good Road at this Town, but nothing else in the Sea, or on the Shore, worth your notice: you ride in 6 to 8 Fa. soft Ground, the Factory bearing W. by S. from you.

From hence to Canare Point is 4 Ls, the Course N.E. by E. Keep along Shore in 7 to 9 Fa. no farther out, for next this Fair Way lie the well known Rocks of Santipelle, 2 Ls out in the Sea: You will know them by a great Thicket of Palmeta Trees to the castward of the Town; they bear N.W. by W. from you; also by a small round Hill up in the Country,

and another like it on the Strand.

If you would go between the Rocks and the Main, you must keep no farther offing than in 9 or 10 Fa. and no nearer the Shore than 5 or 6 Fa. the best is to keep in 7 and 8 Fa. between both: Then there is no Danger. If from Bimbepatam you will go without these Rocks, you must come no nearer than 16 or 17 Fa. but the best Depth to keep in is 20 Fa. and so you will be sure to pass 2 Ls off them, because near the Rocks the Current sets strongly off and on, so that there is no Security in borrowing any thing near them.

Here by our Account ends the Coast of Coromandel, and the antient Empire of the great Mogul; and here begins the Kingdom of Golconda, and the Country of Orixa, whose Coast

continues to the Mouth of the Ganges.

Orixa, and of Golconda, to the Mouth or Entrance into ly called the River Hughely, exclusive of that River.

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nall Variation, Course all the r are there any or any Shoals r open Rocks, any Harbours orth notice on off of *Pandy*; ings almost c-Ls off Shore,

varies 1 Point lefs even, and There is indeed a Land-Riff or Sand at both the false Cape (Palmas) and the true; the first is of no Consequence, having a good Depth over it, and not running out so far as the other; but that at the true Cape or Point must be avoided by all means, for it is shoal and dry in some places at low Water; and besides coming too near, you will be oblig'd to stand off again E. by S. If you are bound to the N. about the Point, you must come no nearer than 10 to 11 Fa. at least not with great Ships, the Soundings of the Shoal being very uneven, especially in 7 to 8 Fa. differing 2 or 3 Fa. at a Cast: 'Tis therefore best going about the Point in 12 to 13 Fa. which you will find at about 2 Ls from the Shoal.

The next Station is fom the finall Rivulet to the finall Point, called the False Point, which is called by the Natives Carregaran, or Carrogarre. Here your Course is E.N.E. for 12 miles; the Land is level, but cover'd with Trees and Bushes, till you come near the Point, and then the Trees make a ta distance like a parcel of sinall Islands, by which the false Point is known. Keep 2 Ls Ossing in 20 and 21 Fa. soft Ground, that you may keep without the Flats mounth Course.

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From Carreparre to Manchepatam the Coast varies 1 Point to NE. by E. the dist. 8 Ls. Here the Land is less even, and more baying, as it's coarsely call'd, so that it ought to be shunn'd in case of Winds off Sea, there being no good Ground to anchor in here, as is on all the rest of this Coast. Also on the S side of the Creek there lies a Shoal of Sand stretching out into the Sea 2 miles, but there is 4 Fa. Water upon it: you may know the Place or Port by a Pagado, which you may see over

the Land, which overhangs as if it would fall.

From Mancheput in the Course varies again, and goes away E.N.E. half E to Cafe Palmiras: it may differ a little, but is much the same Course N.E. or within a Point of the N.E. one way or other. There is no Place very remarkable on the Coast, or any thing to be observed for the Sailor's Directions in

the failing by it.

There are several places between, which our Pilots indeed think fit to name, but do little more than name them; as Jean Ginel, or, as our Scamen call it, Jackaranat, Cameron, or the Blick Pagode, the Small Pagode, Massippore, Ansippore, the Rivulet, Cape Falso, or the Valse Point. In all these the Directions given are only to the 3 first, viz to keep the same Osling, of about 3 miles, and you shall find the same Depth, viz 12 to 13 Fa. In others, viz, the last 4, to keep 2 Ls Osling in 2 to 21 Fa.

There is a high white Pillar li'e a Mast at Massiepore, as a Mark to know the Land by, but there are very sew Sea-

marks any where elle upon this Coaft.

River, but with a finall Variation, the Course all the ther are there any re, or any Shoals sor open Rocks, nor any Harbours worth notice on ross of Pandy; Offings almost c-

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at Massepore, as re very few Seabut that at the true Cape or Point must be avoided by all means, for it is shoal and dry in some places at low Water; and besides coming too near, you will be oblig'd to stand off again E. by S. If you are bound to the N. about the Point, you must come no nearer than 10 to 11 Fa. at least not with great Ships, the Soundings of the Shoal being very uneven, especially in 7 to 8 Fa. differing 2 or 3 Fa. at a Cast: 'Tis therefore best going about the Point in 12 to 13 Fa. which you will find at about 2 Ls from the Shoal.

The next Station is forn the finall Rivulet to the finall Point, called the Falfe Point, which is called by the Natives Carregaran, or Carrogaire. Here your Courle is E.N.E. for 12 miles; the Land is level, but cover'd with Trees and Bushes, till you come near the Point, and then the Trees make a ta distance like a parcel of finall Islands, by which the false Point is known. Keep 2 Ls Offing in 20 and 21 Fa. fost Ground, that you may

keep without the Flatsupon the Coast.

From the Falle Point, or Flat Point, to Cape Palmirasis ols. the Course N.E. but you must fail N.E. and by E. to avoid the aforetaid Sand of Cape Palmiras: for coming near, you will be forced to flandoff E. by S: If you are bound about the Point. come no nearer than 10 or 11 Fa. with great Ships; for in 8 and 7 Fa. are very uneven Soundings, fometimes differing 1 1, or 2 or 3 Fa. at a Caft, but it is best, doubling the Point in 12 or 13 Fa. Clay Ground, which you will find at about 2 Ls Offing. When you have doubled the Point, haul away N.W. by N. 2 miles, and then N. a small matter, and you will find the Tail of a Bank, on which is 9 or 10 Fa. (Sand) for 2 or 3 Cables length: and then you will have again 13 or 14 Fa. Clay, and 1- and 18 Fa. Sand, mixt with finall Stones. Then haul away N.W. or a little more westerly: but if the Flood draws you to the Eastward of the North, you will mils Ballafore. When you have failed N.N.W. 2 or 3 miles, you will fee a Shoal, on which the Sea breaks: Come no nearer it than 12 or 14 Fa. for it is steep too. When you have this Shoal W. and by 5 or W.S.W. then steer N. from Piply, and N.W. from Ballafore, taking great care to keep your Lead going.

N B. Cape Palmeras is in Lat. 20 d. 45 m

Sailing

Sailing Directions for the River

Sailing Directions for the Coast of the Kingdom of 1 Hugeley, or Gang

Hether this or that Port or Road be in the Kingdom W of Golconda, or of Bengal, is not our business in our Directions to the Sailors; but we are obliged to mention it, because Places of the same Name are distin-

guished by the Country where they are fituated: I take Bengal, as a Coast, to lie from Cape Palmiras, on the N. of the Coast of Golconda, and to extend only to the Entrance into the River Ganges: where it reaches farther, we shall show by it felf.

From the Point of the Sand off of Cape Palmiras to the River Ballafore, or to the Road before the River, taking crofs the Bay, as the Ships ordinary fail, the Courfe is N. by W. or N.N.W. dift. about 13 to 14 Ls. Some have told us of another Shoal or Bank in this Courfe, viz. E. by S. from Cape Palmiras, dift. 28 Ls; to that by their Account it should be found in your flanding off from the Riffor Shoal of Cape Fallo, to go round that of Cape Palmiras, or to fland away to the S. Entrance of the River Hugeley: others lay there is no fuch Sand

Which ever of these be right, one may be assured the Ground has been carefully founded all the way on both fides the Sand of Palmiras, and for 30 Ls off the Point of it; and no fuch Sand has been found, or any Shoal or Bank, but gradual Soundings from 7 Fa. on to the Sand-edge, and to 18, and on to 30 Fa. in the Offing.

However, the vigilant Mariner, if he is in the least doubtful, will be fure to keep the Lead constantly going, for his better Satisfaction, all the way, while he is rounding the faid

Sand, as also when he is Coasting at a distance.

In going from Palmiras to Ballafore you must be careful to observe the Tides; for your Course may alter a Point or two, as you fail with the Flood or against the Ebb: If with the Flood, which fets strong 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 Courle, and not be put by the Road of Bal-Difore.

The Road of Ballafore is at least 3 to 4 Ls 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 Fa. The River is barr'd, and you cannot go in with great Ships; there is but ; Fa. without the Bar, and but 4 above a L. off. Ballafore hes in 21. 16. N. Lat. there is an English Factory here: from hence to the W. fide of the Shoals of Hugeley the Courfe is E. by N. eafterly.

From the dry Sand above-nam'd to Pipley the Courfe is due N. the diff. 17 Ls: but you must have a little respect to the Tides in this Courfe also, as above; for if you go with the Ebb, you must go more to the W. but come no nearer the Bay

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fost, then you need not sear the Sand upon that Point. Thence the Depth will shoal upon you gradually till you anchor in Ballasore Road, where you may ride in 6 Fa. Or if the Winds blow hard easterly, take more Depth of Water. Pipley is a Dutch Factory, and lies at a dist. up the River: Tis a barr'd Port, having indeed a double Bar, so the great Ships ride without, but not so far off as at Ballasore; for on the E. side of the Passage over the Bar, about 2 miles from the Bar, there is good anchoring in 5 Fa. if you are in a small Vessel that may venture, there are Dutch Pilots to carry you in.

N. B. Here, in order to what follows, take fome needful.
Observations of the Tides and Ground in this part which

is properly called the Bay.

1. In the Road of Ballafore your Mark for the best Ground is the Tamarin Trees, which stand on the Starboard side of the second Reach in the River, bearing N.N.W. from you; or the W. Point of the River, called by the English Point Bankful, bearing N. These Marks make the full Extent of the Road.

N. B. Bankfal Point is known by an English Set of Warehouses built upon it, and a Dutchman's Tomb who lies bu-

ried there.

2. The Full and Change of the Moon, Day 10 \(\frac{1}{4}\) Hours long, makes full Sea off of Pipley, the Trees on the W. Point of the River bearing N.W. by N. from you.

3. In an Offing of 6 Fa. at low Water, 9 Hours 1 Day, Full

and Change makes high Water off Piples.

4. Day 9 Hours, 45 Min. the Full and Change of the Moon makes high Water at the Foot of the Westermost Brace, called the outermost Brace in the Mouth of Hugeley.

5. Day Full, 12 Hours, makes High Water Full and Change in the great Swatch between the Shoalings of the Baraballo and the Long Sand, either towards Cock's Island, or Kedzari

River's Mouth.

6. The first Quarter Flood from the Road of *Ballafore*, and as high as Krdgwe, fots due N with great Force; the half Flood in the same Situation N.E. and the first of the last Quarter E.N.E. the Ebb just the Reverse.

7. In the same Situation the Springs rife 15 Foot right up and down, Neap-Tides 6 Foot, off of Pipley 11 Foot and 7

Foot, and on the outer Brace 12 Foot and 8 Foot.

8. There is no less than 13 1 to 14 Foot Water upon the faid outer Brace.

N. B. In the middle of it 'tis | Foot deeper than at the out-

er Edge, either going on or off.

All these things being duly consider'd, you may weigh from the Road of Ballasore upon the sirst of the Flood, Wind at S.W. and sleer due E. 9 \(\frac{1}{2}\) Ls which will carry you half a L. beyond Popley, and 2 \(\frac{1}{2}\) Ls short of the Brace.

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observe the Tides; for your Course may after a Point or two, as you fail with the Flood or against the Ebb: If with the I lood, which fets strong 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 Courle, and not be put by the Road of Bal-

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From the dry Sand above-nam'd to Pipley the Course is due N. the dift. 17 Ls: but you must have a little respect to the Tides in this Course also, as above; for if you go with the Ebb, you must go more to the W. but come no nearer the Bay

than 7 to 9 Fa.

To fail from Ballafore to Pipley the Course is E.N.E. 20 miles; you may keep along Shore in 5 and 6 Fa. according to the Burden of your Ship: You may know Pipley by a Pagode, standing on the W. side of the River; near to which stand a or 3 great Trees which almost cover it, fo that it is hard sometimes to fee it. There stands also a Flag-staff, and when you have that N.W. and N.N.W. in 5, 6, or 7 Fa. then you are in the Road: but coming from the Westward along the Shore, you must have a care of the West Bank, which tails out at least 4 miles to feaward, upon which there is but 3 and 4 Fa. Water. Then is the Flag-staff N.N.W. fo that you must keep a little

When you luff in for the Bay of Bengal about Cape Palmi-7.25, as foon as you have hard Ground be fure bear off, keeping your Lead conflantly going, one Cast hard and the other

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Sailing Directions for the Entrance into, and failing from the Road of Ballasore, and of Pipley, and I several Channels, or so many of them as have been



HE River Ganges, commonly called by our Sailors the River Hugeley, as it is the most frequented by T European Ships, and is now made the Centre of their Commerce for the whole Kingdom of Bengal, it is requifite the Directions for failing into and out of it

should be the more particular; especially, z. Because it is a River of the most dissicult Entrance for a Stranger, has the greatest Variety of Channels, and is the most blockt up with innumerable Sands and Shoals of any Ri-

ver in this part of the World. 2. Because norwithstanding this, it has been surveyed and founded with the utmost Exactness, and divers safe and good Channels that ule th which are being gen miles of I Braces an much mor are recko

3. Beca frequented fy to be h their whil

5. Day Full, 12 Hours, makes High water full and Change in the great Swatch between the Shoalings of the Barabullo vith the and the Long Sand, either towards Cock's Island, or Kedzare vith the River's Mouth. he Ebb. ay have

6. The first Quarter Flood from the Road of Ballasore, and as high as Kedgare, fets due N. with great Force; the half Flood in the same Situation N.E. and the first of the last Quarter E.N.E. the Ebb just the Reverse.

7. In the same Situation the Springs rise to Foot right up and down, Neap-Tides 6 Foot, off of Pipley 11 Foot and 7 Foot, and on the outer Brace 12 Foot and 8 Foot.

8. There is no less than 13 to 14 Foot Water upon the said outer Brace.

N. B. In the middle of it 'tis + Foot deeper than at the out-

er Edge, either going on or off.

All their things being duly confider'd, you may weigh from the Road of Ballafore upon the first of the Flood, Wind at S.W. and steer due E. $g^{\frac{1}{3}}$ Ls which will carry you half a L. beyoud Pipley, and 2 - Ls short of the Brace.

Note, It has been reported, that from Point Palmiras E. by S. 28 miles in the Sea, on the Bank mention'd before, a Ship was lost: but others question the truth of it, as they do of there being fuch a Sand there, Search having also been made for the Wreck as well as the Sand, but not found: however, it cannot be amifs, as I faid above, to keep the Lead going, for fear of the worst.

From the dry Sand Bank to Ballafore the Course is N. and by W. and N.N.W. about 12 or 14 Ls; but you must mind the Tide, and shape your Course according to the Ebb or Flood: you may fail in from 6 to 4 Fa. as your Vessel requires. Here it flows 12 or 13 Foot right up and down: Ballafore lies in Lat. 21d. 16 m.

From the dry Sand to Pipley, the Course is N. about 17 Ls;

but you must have respect to the Tides.

into, and failing up the River Hugeley, especially Pipley, and likewise out of the said River by the n as have been discover'd and surveyed.

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> Channels discover'd and mark'd out; so that the greatest Ships, that use the India Trade may fail up to the farthest parts of i, which are practicable, or which the Commerce requires; there being generally 5 to 7 Fa. Water in those Channels within a few miles of Hugeley it felf, which is from the Entrance of the Braces and other Channels at least 160 English indes, and much more, if the Reaches and Turnings of the faid Channels are reckon'd in.

> 3. Because tho 'tis a River of very good Business, and much frequented by our Ships, yet we do not find that Pilors are eafy to be had, or that there is Bufinels enough to make it worth

their while to be always attending it.

Supposing

Supposing then a Enrepean Ship bound into Hugeley is lying at Ballsfore, or in Pipley Road, waiting for a Wind; it is reedful to give some general Instructions for their getting into the Channel of that River, that part being almost as difficult as all the rest: If the Ship lies in 6 Fa. at low Water, let them weigh at the first of the Flood, and go away due E. 9 ½ Ls. This Course will carry them half a Libeyond Pipley, being 2½ Ls short of the outermost Brace, when the Trees on the Starboard side of Pipley River mention'd before will bear N.W. by N. There let them anchor in 7 ½ to 8 Fa. at high Water.

N. B. There they are fure of 6 Fa. at low Water, and they must anchor here to wait for the next Day's Flood,

to carry them over the Braces.

But if the Wind chances to blow more out of the Sea, that is, any where to the S. or near it, they may fleer from Ballefore with the first of the Flood E. by S. or E.S.E. to the same Station as before: the Reason is, because otherwise the Flood Tide and Out-Wind will horse them up too near the Shore.

N.B. The diffance from Pepley to the Outer Erace, as above, is not above 5 Ls; and this makes the Riding there necessary, because 'tis not convenient on any Account to anchor near the Brace in the Night, less by the sharpness of the Current and the shiftness of the Gale they should over-run their length, and come upon the Braces out of time.

For this Reason let them keep the Lead carefully going, till they are 5 Ls to the cashward of the Road of Ballasone; then take exact notice of the Sand upon their Lead; When the River of Pipley bears due N, there will be a fine light brown Sand without fail for three or four Casts, then Ouze again; then let them anchor; only so as to be sure of 6 Fa. depth at Low Water.

M. P. Tho there is not less than 13 to 14 1 Foot Water upon the Edge of the Brace, yet in blowing Weather the Sca runs very high there, and sometimes is all on a Breach; so that if the Ship draw deep, and the Wind blows hard, they ought not to stir to weigh till two Hours Flood: Then with an easy fail they may steer away E. by S till they find by their Lead they are upon the Brace it self: Then let them crowd all the Sail they can make, till they are over, and entired into the sind Channel, call'd the Small Swatch.

N. B. The Small Swatch is a narrow Channel between the two Braces.

As foon as they find themselves entred, and in soft Ground, they will have 5 \(\text{to 5} \) Fa. Water: Then let them steer E. by N. and E.N.E. to pass the second Brace, and get into the Great Swatch; and being advanced about 2 Lethere, and the Tide spent, or the Ebb made, then let them anchor, which they may do very securely, so as to have 4 \(\text{to 5} \) Fa. at low Water, and so be ready to 50 on again with the next Flood.

This being a very nice and difficult Courie, the following Observations may be added, and should be regarded earefully.

That if you weigh from inflation at two Hours Lood.

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e following carefully.

Swatch is part of the main Channel) the farther Directions are as follow.

As foon as entred the Swatch, steer away E.N.E. and N.E. by E. to avoid the dry End of that dangerous Sand just named, called the Long Sand, keeping a Man always upon your Foreward or Bow-sprit to look out for the Breakers.

1. In case you happen to be any thing near them before you discover them, which you may perceive by having deeper Water, you must steer off for a while to the northward: But the fasest way is to range the Barabullo in 5 Fa. Water; and if it happens that the Wind being slacker, or the Night come on before the Flood be spent, you must haul up E. and E. by S. for half a Glass's time, into 6 or 6 1 Fa. Water, soft Ouze, and there anchor to meet the next Day's Flood.

A. B. Hereabouts there is no failing by night in great Ships tho with the most experienc'd Pilot.

2. Supposing you cannot get so far as to be a-breast with the Head of the Barabullo, you may with the sirst of the Flood, before the Tide makes strong up, or that your Ship winds to the Tide, get up your Anchor, and continue your Course N.E. by E. and N.E. until the N. end of the Segar bears E. by N. or that the Barabullo Tree on the W. Shore (which makes like an Umbrella spread open) bears N.W. Thence you ought to steer N. and N. by W. leaving the Breakers of the Barabullo on your western side at least \(\frac{1}{2}\) of a Mile: And this Course will carry you to the Mouth of Kidgare River. You ought also to take notice that the Breakers of the Barabullo he about \(\frac{4}{2}\) Miles of the western Shore, and bear S.E. and N.W. with the Kittesale or Subrella Tree, and N. and S. with the Grove of Trees call d the Long Wood, which stands to the westward of the Entrance of Kidgare Fiver.

3. Off of the E. Point of Kidgare River runs a Flat, a full quarter of a Linto the Offing, which is steep too; and therefore as soon as the River is open, you ought not to come nearer the Shore on that side than within; of a L at least: But when you have past the River's Mouth, you may edge in again towards the Shore 1 L. Before you come up with the River of Cowcolle, you may not be more than a Mile off the Shore.

4. The Head or N. end of the Long Sand lies 2 Miles E. by S. from the Mouth of the faid River Cowcolle; and between that Head and the Shore lies the Passage, but close aboard the Long Sand; for that of late a Bank of Sand is hove up betwixt the Long Sand and the River's Mouth, which is dry at low Water upon the Springs, and renders the Passage both narrow and dangerous; so that before a Vessel of burden ventures thro', it will be requisite to order your Shallops to 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 Grappling on the E. Edge of the said (lately hove up) Bank; and so the Ship at half Flocd may pass between them with Satisfaction, knowing the Depth to be sufficient.

This is one way to go fafely thro' tho you flould get no Pilot; the other is thus: Supposing a great Ship to have ne-

by S. till the find by their Lead they are upon the Brace it felf: Then let them crowd all the Sail they can make, till they are over, and entred into the first Channel, call'd the Small Swatch.

N/B. The Small Swatch is a narrow Channel between the

two Braces.

As toon as they find themselves cutred, and in soft Ground, they will have 5 \frac{1}{2} to 5 \frac{1}{2} Fa. Water: Then let them steer E. by N. and E. N.E. to pass the second Brace, and get into the Great Swatch; and being advanced about 2 Lethere, and the Tide spent, or the Ebb made, then let them anchor, which they may do very securely, so as to have 4 \frac{1}{2} to 5 Fa. at low Water, and so be ready to go on again with the next blood.

This being a very nice and difficult Courfe, the following Observations may be added, and should be regarded earefully.

1. That if you weigh from Pipley Tree at two Hours Flood, the E. by S. Coast will carry you directly to enter the High Frace, at 3 ½ Ls distance from the nearest Land, bearing N.N.W. or thereabout; and therefore that is the best Offing.

2. You should not enter upon the Brace in less than 3 Ls from the Shore, because you will else have 3 Foot less Water, and because if the Wind happen to blow more out from the Sea than S.S.W. with the Flood, you will be set into the Bight, and not be able to weather salt River Point, and so unavoida-

bly lofe your Paffage.

3. Nor must you go beyond 4 Ls distance, because you cannot be secure in darkWeather, tho you may have Water enough upon the Brace, that you shall not be embay'd, when you are pass'd it, with the Break rs on the other side of the Small Swatch, (which is what they call the W. side of the Sea-Riss) or with the dry part of the S. end of another Sand call'd the Long S ind, and which lies on the E. side of the Great Swatch. This Long Sand is a dreadful place; 'tis sleep too, and lies very near the Sea-Riss.

N. B. The Long Sand or Dry Bank lies E.S.L. and W.S.W. with the S. Point of the Hlipid Sager, and right up and down the Stream, diffance from the Shore near 4 Ls.

You must by no means come nearer this Sand than 6 to - Fa. for 'tis to steep, especially on that side next you, that at one Cast you may have 7 ! Fa. and before you can heave again, be tast upon it; and having once struck there's no getting off again, but you will be inevitably lost.

4. When you have pass'd the first Brace, and got into the Small Swatch, the Blust Tree at Salt River-Point will bear N. half E. and you will find fost Ground; to that you may be fire, by following the Course directed above, you shall not fast to but the Edge of the Brace, and pass well over.

5. As foon as you have got into the Great Swatch, the Nat Recor Tree, and a white landy Down to the W. of it,

will bear NW. by N. from you.

Finding noted all these things by way of Precaution, and hing entred the main Channel of the River (for this Great

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Convolle, you may not be more than a Mile off the Shore.

4. The Head or N. end of the Long Sand lies 2 Miles E. by S. from the Mouth of the faid River Cowcolle; and between that Head and the Shore lies the Paffage, but close aboard the Long Sand; for that of late a Bank of Sand is hove up betwixt the Long Sand and the River's Mouth, which is dry at low Water upon the Springs, and renders the Paffage both narrow and dangerous; to that before a Vellel of burden ventures thro', it will be requifite to order your Shallops to 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 Grappling on the E. Edge of the faid (lately hove up) Bank: and to the Ship at half Flood may pass between them with Satisfaction, knowing the Depth to be fullicient.

This is one way to go fafely thro' tho you should get no Pilot; the other is thus; Supposing a great Ship to have never a Shallop to attend her, (indeed I take it to be far the fafelt way, tho she had one) let the Ship stay at an anchor about a Mile and a half fliort of Cowcolle River until 4 Ebb, at which time the Long Sand will discover it felf, being dry at that time: you must order it so as to be under fail before it be quite low Water, and range the dry Head of the Long Sand fair aboard, in 5 and 4 ? Fa. Water, I say keep that depth at least; for if you edge off to the thorewards but a Cable's length, you will shoal your Water to 3 Fa. on the Edge of this aforefaid new Sand; but the Long Sand-bead has Water enough close aboard of it, where it lies highest and driest, and at the Time of a flack Tide has no danger, provided you mind your Steerage

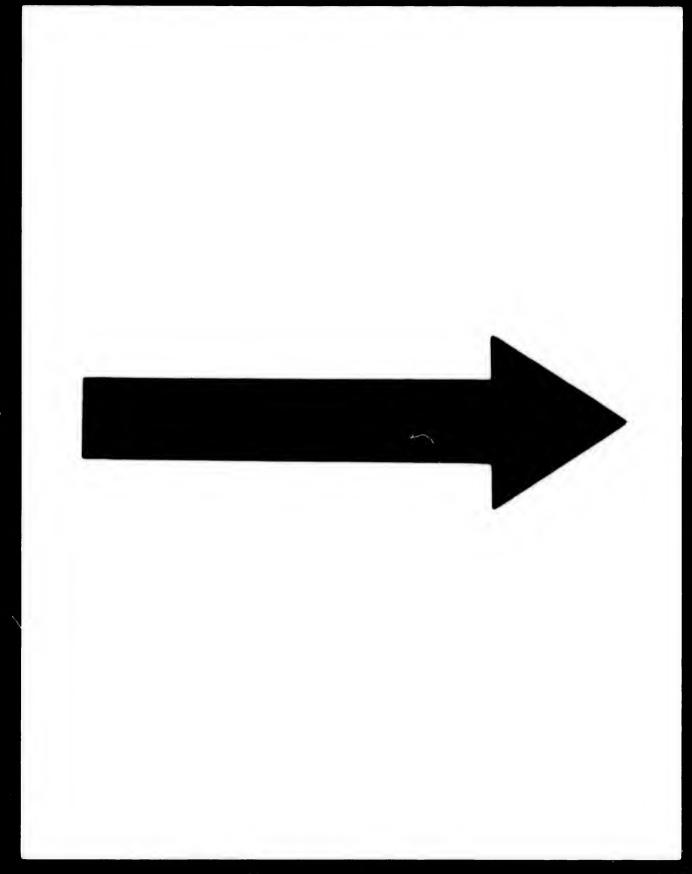
5. So foon as you have past the Long Sand-bead, you will find 10 Fit Water; then you must immediately haul in for the western Shore towards Kidgare River, that so you may avoid the Peak of the Mixon, which is that part of the Sand that hes open with the faid River's Mouth, about a short Mile and half in the Offing, and which is very fleep on the SW. fide of it, lying E. by N. and W. by S. with the great Trees

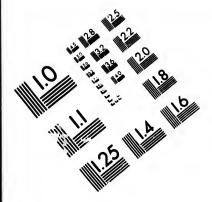
that encompals Kidgare-Fort.

So foon as you have the abovefaid Trees W.S.W. from you, put over immediately for the eaftern. Shore, fleering with the Tide of Flood under Foot E.N.E. or E.by N. until you get hold of the Mixon or Mizen, which will be a Weather Sand, and conduct you with all Security over the eaftern Shore, only passing along by it with Diferction, according as the Wind is leanty or large: Your Courfe being not to much to be minded, as the careful edging on or off from the faid Sand, which with the Flood has no danger on this fide of it, only when Gallingam River bears N. half E. to N. by W.

This Sand has but little Water on it at low Water; it shoals very gradually, to that you may edge off from it as Occasion may require, and always be able to fetch close under the caftern Shore, at least a Mile and half, before you come up to Jeffore River, formerly call'd the Channel Creek: For this last Year, as the N.E. Point of the Mizen is much worn away, fo

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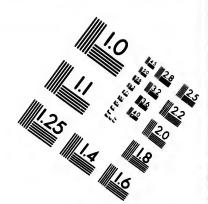
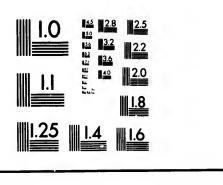


IMAGE EVALUATION TEST TARGET (MT-3)



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the Gillingam Sand, which formerly reach'd no lower than Jeffore River, is now to increas'd, that it comes down as far as the small Creek next to Kidgare River, and has rendred the Channel so very narrow, that with the Flood on the Mizen it would be impossible for you to keep in the Channel, or prevent being hors'd upon the Gillingam Sand, whence there will be no getting off with the Flood; and besides the danger, you will find Dissiply enough to get off with the first of the Ebb.

6. From above a Mile and half below Teffore River the Channel lies close aboard of the Main, between the eastern Shore and the Gillingam Sand, and has no danger at all with the Flood, provided you be not spew'd off from it, for it must not be left until you have past the River of Rongufoula, which lies in the Bight about half way between Teffore River and the River of Culpe: And then fo foon as you have pall Rongufoula River, you will have the Middle of the Grove on Buffalow Point bear N.N.W. from you, and you ought to fland 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. Monsson, if you have no Inclination to venture your Ship any higher up; but if you are refolved for the River of Hugeley, then only stop at the Point for the next Day's low Water, that fo weighing with the first of the Tide, you may be sure of Flood enough from thence to enter the River of Hugeley with, and not be obliged to let go your Anchor in the Narrows, where there is deep Water, and an excessive Tide to strain your Cable.

7. To fail from Buffalow Point upwards, it is necessary to range the eastern Shore far aboard, to avoid the Point of the Diamond Sand, which lies within a Cable's length of a small Creek on the said Shore, and is not to be come nearer to than 7 Fa. As soon as you have past the said Creek, you must trim sharp, and haul up N.W. by W. for the lower Point of the Narrows on the southern Shore; which said S. Shore with the S. westerly Winds, it will be necessary to range, until you begin to open Ingeley River, and then put directly in N.N.E. having a care of the eastern Point of the said River, and of the Eddies which commonly at half Tide are very troublesome thereabouts, by reason of the Division of the Stream into that and the River of Tumber lee.

Directions for carrying up great Ships from Ballasore Road into the River of Hugeley, thro' the new Deeps, provided they have no lefs than two Shallops to attend them.

I know it is very difficult to persuade Men to any new Undertaking: And as often as it has been proposed by Men of Skill as the safest way to carry European Ships of the greatest burden this way into the River Hugeley, it has been objected that it was a thing had never been done, and that the Entrance into the Deeps say so far from the sight of Land, that it would be hard to place any Buoys on the outer Heads of the Sands, to guide them in: Tho some skilful Pilots think that the Opimon of those Men proceeds chiefly from their unwillingness to leave fight of the Land among so many Difficulties, as also from their not knowing the true Position and Shoaling of the

no lower than has rendred the on the *Mizen* it anel, or prevent there will be no langer, you will the Ebb.

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t is necessary to the Point of the length of a small ne nearer to than creek, you must lower Point of h said S. Shore ry to range, unn put directly in f the said River, if Tide are very Division of the

n Ballasore Road Deeps, provided nd them.

o any new Underby Men of Skill as e greatest burden objected that it he Entrance into that it would be of the Sands, to nink that the Opieir unwillingness difficulties, as also I Shoaling of the

4. When the two Shallops are join'd, and day-light prefents, let them both weigh, and according to the Tides under foot, stand thwart the Swatch, the innermost Sounding in about 7 Fa. and the outermost in 9, until the innermost finds hard Ground upon the Edge of the eastern part of the Sea-Riff: And then let that Shallop endeavour to round the S. end of it, without coming into fost Ground, whilst the outermost Shallop finds her self in about 10 Fa but no less, and until the innermost makes Signals that she has rounded the S. end of the Sand, and finding soft Ground, tacks again to come to an anchor upon the Sand; which when she has done, the outermost may come to an anchor in 11 Fa. N. and S. from it.

5. These Shallops being thus posted, will have the Entrance into the new depths sufficiently open, so that the Ship has nothing to do but to bear up to the outermost of them, and then stand in to the northward; she that was upon the Head of the Sand, always keeping upon her Larboard Bow, along the Edge of the Sand, in at least 4 Fa. be it what time of the Tide it will; and the other Shallop upon his Starboard Bow at such a distance, that they may make Signs to the Ship what depth of Water she has, as also if she should meet with any sandy Ground upon the Edge of the Sagor Shoal.

6. The Entrance in this Channel call'd the New Deep, which is bounded on the W. fide by the eaftern part of the Sea-Riff, and on the E. side by the Sazor Sand, lies 12 Ls from the Island Sagor: The Channel stretches nearest N. and S. and has 12 Fa. at the Entrance into it; it is 6 Ls over from Sand to Sand; so that you may expect to be in 5 Fa. at low Water soft Clay, before you can expect to fee the Island from the Poreyard in fair Weather; and until you come into 4 that low Water, you will hardly be able to fee it on the Deck: But let not this startle you, for the Channel thereabouts is 3 Ls and half broad at least fost Ground; and the you must expect no more, yet you will find no less betwixt that and the Sagor, provided always that you leave the fouthermost end of the Island a L upon your Starboard-fide: And when the faid Point bears E. from you at that distance, let one of the Shallops keep between the Ship and the Sea, and keep Caspel and Long Sand to the westward Offing, and the other upon the Seaboard between you and the small Middle Ground, until you get up as high as Cox's Island; and there if the Night draw on, or the Flood be almost spent, let them anchor till the next day abreast with the Body of the Island, in 7 to 8 Fa.

7. When the next Day's Flood presents, let them weigh from Cox's Island at the first Quarter's Flood, and steer N. or N. half W. keeping the Long Sand aboard, until they get over within a Mile of the other Shore, and about half a Mile short of the lower Point of Kidgare River, and thence proceed as has been already directed, in the Instructions for great Vessels that came thro' the Middle Channel.

If Ships of great burden were thus strictly attended with two Shallops, I dare assirm there is much less danger in entring the River thro' the New Depths than over the Braces; nor need they fear ever coming into less than 4 Fa. at low Water upon the Springs; only if the Night or want of Wind happens, it was occasion their anchoring when they come a little short of

troubletome thereabouts, by reason of the Division of the Stream into that and the River of Tumber lee.

Directions for carrying up great Ships from Ballafore Road into the River of Hugeley, thro' the new Deeps, provided they have no less than two Shallops to attend them.

I know it is very difficult to persuade Men to any new Undertaking: And as often as it has been proposed by Men of Skill as the safest way to carry European Ships of the greatest burden this way into the River Hugeley, it has been objected that it was a thing had never been done, and that the Entrance into the Deeps say so far from the sight of Land, that it would be hard to place any Buoys on the outer Heads of the Sands, to guide them in: Tho some skilful Pilots think that the Opinion of those Men proceeds chiefly from their unwillingness to leave sight of the Land among so many Dissipulties, as also from their not knowing the true Position and Shoaling of the outer Sands; for otherwise, having two Shallops to a Ship, there cannot be any absolute Necessity of Buoys, or any great Dissipulting, much less Danger, in carrying of Ships that way: The manner we may suppose to be thus.

Road, I mean to the forementioned place of anchoring, 2 Ls ½ to the castward of Pipley, as in the sormer Directions for Ships that were to have gone over the Braces; and there the Ship coming to an anchor, let the Shallops steer E.S.E half S. until they get the Soundings of the western Brace, then let one of them keep along the W. side, until he gets to the southward end of it, and the other keep a-breast of his Companion, but sather off in 8 Fa. soft Ground: then let them both anchor, the one upon the very S. Pitch of the Brace in 4½ or 5 Fa. sandy Ground, and the other E. from them, in 8 or 9 Fa. Ouze; and there both stay 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 steer to find out the Shallops, with the Ebb E.S.E. and with the Flood S.E. by E. but so as never to come at less than 8 Fa. at low Water, in whatever depth the Shallops

lops may lie.

3. As she sleers towards the outerm of Shallop, the innermost, which anchored at the S. end of the Brace, ought to make all possible haste to get the Sounding of the westermost part of the S. end of the Sea-Riss, and stand along the end of it, in 5 and half and 6 Fa. until he finds he is past the first Branch of it, and got into soft Ground: Let him then tack, and stand back into hard Ground, and there anchor in 6 Fa. Whilst this is doing, the other Shallop may keep a Mile or two a-head of the Shallop that rides upon the Head of the western part of the Sea Riss, let the Ship anchor, and dispatch that Shallop to her Companion for her farther proceeding:

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from you at that diffance, let one of the Shallops keep between the Ship and the Sea, and keep Caspel and Long Sand to the westward Ossing, and the other upon the Seaboard between you and the small Middle Ground, until you get up as high as Cox's Island; and there if the Night draw on, or the Flood be almost spent, let them anchor till the next day abreast with the Body of the Island, in 7 to 8 Fa.

7. When the next Day's Flood presents, let them weigh from Cox's Island at the first Quarter's Flood, and steer N. or N. half W. keeping the Long Sand aboard, until they get over within a Mile of the other Shore, and about half a Mile short of the lower Point of Kidgare River, and thence proceed as has been already directed, in the Instructions for great Vessels that came thro' the Middle Channel.

If Ships of great burden were thus strictly attended with two Shallops, I dare assiring there is much less danger in entring the River thro' the New Depths than over the Braces; nor need they sear ever coming into less than 4 Fa. at low Water upon the Springs; only if the Night or want of Wind happens, it may occasion their anchoring when they come a little short of the Sagor, or between the small Middle Ground and the Long Sand, which cannot be said of either of the other Entrances into the River.

Take also the following Directions to go up along the western Shore.

Being come up as high as Gillingam, be fure you mird to give the upper Point of the River a Birth, for the Gillingam Sand lies off from above the faid Point of the River, half a Mile to the eastward, 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 a Vessel of Charge, and lies about a quarter of a Mile Offing from the Main, until a certain round bushy topp'd Tree half a Mile to the northward bears W.N.W. and then the nearer the Shore the better the Channel, until you pass 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, steer 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 must keep fair aboard, until past the small Creek; this Channel affords not room to turn it up.

Particular Directions for failing with great Ships down the Ganges, and bringing them out into the Sea, according to the Draught given by Mr. Herring an able Pilot

Supposing your Ship to be up at her Moorings at the Factory, below the Town and Port of Hugeley, bound down: First note, That from Gull Gat in the height of the River, as

far as from the Town of Huzely, till you come below the New Chaney, lies a Sand flretching two thirds or more thwart the whole River, almost as far as the Dutch Eungelo: To avoid this Shoal, keep on the Starboard side of the River, where you will have $3 \div$ to 4 Fa. till you are below the next Point, and below the usual Dutch Moorings; after which you will have $4 \div$ and 5 Fa. keeping the same Shore close aboard, till you come a little short of the Point opposite to the Dutch Bungelo: Then you will be past all the Danger of the Shoal.

When you are below the New Chaney, and past a little House on the Bunger side, short of the Bungels, there you will find a Sand, being a Branch from the Buvey Sand, but discontinued by a small Channel of but 4 Foot Water; it is steep too, and reaches within a little Stone's Throw of the Bun-

geD.

Whereas then you are obliged to put over to the Western Shore, because the Point opposite to the Bungelo is flat off, you must put over so, as that you may not fall below the Bungelo because of the sleep Shoal, which lies so near it as above; and then you will be out of Danger of any of those Shoals. For from the Bungelo it self there is a Depth of Water sufficient, the 5 to 7 Fa. according to the time of the Tide; keep it on board therefore, till you come near the upper Point of the Devuls Reach.

The Devils Reach, befides its perplexing Crookednefs, from whence it has its Name, has its share of a Shoal and Eddy on the Starboard side: the sirst lies from the upper Point, stretching two thirds over the River, or more. To avoid that Danger, sland over from a little above the upper Point, with a great Tree on the eastward side, being the lowermost Tree of a large Garden which it stands in; and with the Tree next the upper end of the plain Ground on the eastern Shore, and keep that Shore sair on board to the lower end of the Reach.

From the lower Point of the Devils Reach keep the middle of the Channel, or a little nearest the Starboard Shore (the Larboard side being shoal) till you just enter into Pulta Reach; and there a little below the Town of Pulta, edge over to the eastern Shore again, and a-breast with a great single Tree.

From the back of the Point on the Western Shore of Pulta Rea's, 'tis all shoal more than half the River over, till you come to the Elephant Tree at the upper end of the Town of Dezon.

In this Reach you must keep Mid-Channel till you are past the Town; for in the Bight of Degon, where the Town stands, 'tis all deep Water, but then 'tis never without a strong Eddy: and on the opposite Point of the Reach 'tis all shoal off a good way. When you are below Degon, keep the W. Shore on board, till you are almost at Channock, or Chanoc.

There are 2 Shoals in Channock Reach, one on the fide of the Town, the other on the opposite side: The sirst reaches from half a mile above to 4 of a mile below the Town, and is called the upper Shoal: To avoid this, keep the western Shore about till you come to a single Tree on the lower end of the

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Being come thus far below the House on the W. side, sland over again towards the Salt Banks on the castern side; and then go rounding Chitty Poc Bight, down as far as Chitty Nutty Point; only mind to keep out of the Eddy, which you will find a little short of the Point, and which will set you strong upon the upper side of it.

N. B. If you have a large Ship, that draws from 15 to 18 Foot Water, you must not weigh to stand into the Bight of Chitty Poe, till about an hour before high Water.

N. B. The Starboard Shore in Chitty Poe Reach is all shoal above; Channel over; therefore (however long it may seem) be sure to keep in with the Land quite at the bottom of the Bight on the other side.

From Chitty Nutty Point, even from the first Pitch of the Land, you must not fail to stand off, giving the Point it self a large Birth; and endeavour to keep over at least as far as Mid-Channel, or rather nearest the Starboard Shore; and hold this Course till you come almost to the next Point on the eastern Shore: This Course is necessary to keep you clear of a Sand which lies all along on that side, almost from Point to Point, even from a little below the great Tree at Chitty Nutty Town, to a good quarter of a mile below the Town it self.

From the next Point on the western Shore below Chitty Nutty Town, you must make back to the Larboard Shore again, and keep that side aboard as low as Gover-Napore: for the other Shore, (which is there N.W.) has another Sand which runs along half Channel over, and reaches right down the Stream of the River, till you are past Gover-Napore Town: That Shoal is very dangerous, 'tis steep too, and not

to be borrow'd upon with the Ebb nearer than 4 Fa.

From the Town of Gover-Napore, you must stand over to the N.W. Side again, and keep that Shore on board, till you come almost as low as the Point against Kiddery Poe: The reason is, because the Bight below Gover-Napore is shoal, and has a strong Eddy alfo; reaching till after you are past the Shoal, and which will fet you back upon the Point of the Shoal it felf: to you must stand over; but then take care to keep the western Shore on board no lower than to the Point as above; for below the Point there is another great Shoal, which lies two thirds of the Channel over: As foon therefore as you are a little short of that Point, stand directly over with the Flag-stass upon Kiddery Poe Fort; then go on rounding Kiddery Poe Bight, till you are past the Town; only be careful of Eddies, and when you find them, keep a little off, but not above a Ship's length or two; and if you find the Water shoaling in the Offing, fland out no farther.

From this Bight you may make the Head of a Reach called Great Tanna, in the Entrance of which run two Eddies, one from the lower fide of Kiddery Poe Point above-named, and the other from the Point of the Starboard Shore: The first spreads almost thwart the whole River, therefore as well in the Entrance as all along the Reach, you must keep the Starboard Shore aboard. The Reach is bold, without any Shoals,

AND THE CONTINUES OF THE PARTY eaftern Shore again, and a-breaft with a great fingle Tree.

From the back of the Point on the Western Shore of Pulta Rose's, 'tis all shoal more than half the River over, till you come to the Elephant Tree at the upper end of the Town of Degon.

In this Reach you must keep Mid-Channel till you are past the Town; for in the Bight of Degon, where the Town flands, 'tis all deep Water, but then 'tis never without a strong Eddy: and on the opposite Point of the Reach 'tis all shoal off a good way. When you are below Degon, keep the W. Shore

on board, till you are almost at Channock, or Chanoc. There are 2 Shoals in Channock Reach, one on the fide of the Town, the other on the opposite fide: The first reaches from half a mile above to 1 of a mile below the Town, and is called the upper Shoal: To avoid this, keep the western Shore aboard, till you come to a fingle Tree on the lower end of the clear Land; or if that Tree should be gone, observe the said plain Ground, and when you come near the lower end of it, fleer over with fome Trees about Channock House; but go no farther over than Mid-Channel, for then you are exactly between the two Shoals.

Keep on then in the Offing of the Channel, heaving your Lead, and to you will go clear of the lower Shoal; then you must edge over gradually towards the Shore of Channock, right with two Blaff Trees, near to which, and between them and the Water-fide, stand two Palmetta Trees, and under them a finall House bearing E. and W. with a Pagede on the Western Shore.

From these Trees and the House keep the eastern Shore close aboard into the next Reach, which is called Titegar or Tiltigar Reach: The Town of Titegar is a finall Village by the

River fide, at the Entrance into the Reach.

When you are enter'd into Titegar Reach, keep the Mid-Channel as far as the Slipper Tree; then from an old Brick Pazode opposite to the Tree, begin to edge off to the Western Shore, with a great Tree opposite to the Town of Puddrest; and from thence keep the W. Shore on board, till you come almost to the Point on the same Shore, and at the lower end of Slipper Reach; and then edge over to the eastern Shore again, with 2 great Trees; then go rounding the Bight on the tame fide, (for the other Shore is thoul off; over the whole River) till you come over to the Dutch Lump, and there you will find deep Water, in but a Pistol Shot offing from the

Thus you must continue rounding the Bight, till you come within less than 4 of a mile of the upper Point of Barnagar Reach: This Reach is (on the Barnagar fide) flat all along; therefore from a little above the upper Point on the E. Shore (which in coming down the River must be with your Larboard Tack) you must put over for the western Shore, keeping it fair aboard, till you come about \(\frac{1}{2}\) of a mile below the white House of Barnagar, or Barungull.

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Shore on board no lower than to the Point as above; for below the Point there is another great Shoal, which lies two thirds of the Channel over: As foon therefore as you are a little thort of that Point, fland directly over with the Flag-flaff upon Kiddery Poe Fort; then go on rounding Kiddery Poe Bight, till you are past the Town; only be careful of Eddies, and when you find them, keep a little off, but not above a Ship's length or two; and if you find the Water shoaling in the Offing, stand out no farther.

From this Bight you may make the Head of a Reach called Great Tanna, in the Entrance of which run two Eddies, one from the lower fide of Kiddery Poe Tont above-named, and the other from the Point of the Starboard Shore: The first spreads almost thwart the whole River, therefore as well in the Entrance as all along the Reach, you must keep the Starboard Shore aboard. The Reach is bold, without any Shoals, with 5 to 7 Ba. from fide to fide: All the Dangers there are from the Eddies, especially that in the Bight, between it and the Fort, where if you do not keep to the eastern Shore, the Ebb will be apt to horse you upon the other Shore; and there's no carrying an Anchor out in the Tide in that Reach till the next high Water.

When you come past the Point at the bottom of this Reach, you enter upon Little Tanna Reach: Here from behind the Point on the castern Shore, lies a Shoal; to shun which stand over from the S. Point directly to the Town of Little Tanna, and keep the same Shore on board afterward, till you come to the lower Point of the Reach.

This is a bate Shoal; you will find its farthest Extent thwart the River is towards a small Creek below Little Tanna; when you bring a single great Tree standing on the W. Shore open on your Stern about a Handspike's length, off of the Tower in Great Tanna Reach, then you are clear below the Shoal.

N. B. The same Tree is a good Mark also in going up the River with the Flood, and standing about Little Tanna Point; directing you not to venture any farther towards the eastern Shore off of the Point, than while you can see the Sand off of the aforesaid lower Point of Great Tanna Reach; for if the Flood shut in the Tide with the Point, the Current will horse you too sast upon the Sand, so that you will not be able to setch Little Tanna again in time; for the Shore of Little Tanna ought to be kept close aboard in coming up as well as in going down.

On the Back of Little Tanna Point in the same Reach, a little below a Village call'd Morneck Pore, or Manneck Pore, on the western Shore, lies another Shoal, which runs at least? cross the Channel: You must not at your Peril come nearer to it than 5 Fa. upon the Ebb; and in doubling the Point, you must take great care of it, as also of an Eddy in the Bight opposite 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 Eddies, which you may avoid by keeping a Mid-Channel Courfe, the Eddies run chiefly close under some Bushes, which you will see upon both Shores.

William and John's Reach is next: The upper Point of this Reach, on the W. Shore as you fail down, is flat about a Stone's Cast from the Shore; so you must give the Point a small Birth: On the other side there comes in a River called Nutty Bungelo, the Opening is slat like a Bar to the Entrance, for about a Stone's Throw; so is a little Bight below the S. Point of the Opening or Mouth of the River: you must therefore edge over towards the W. side of the great River, till you are below the small River, and the Bight also, but you must not keep the W. Shore on board; for as soon as you are past the Back of the upper Point, that Shore lies shoal also, till you are above half thro' the Reach, and the Shoal spreads for more chan half Channel over.

The new P

The next Reach is John Padre's, or Father John's Reach; others call it Yedro's Reach, others Sumatra Reach; 'tis called to from an Island which lies in the Fair Way of the Channel, and which is an ugly dangerous Island, because the Current lets upon the Point, which you must be careful to shun: you may fail on either fide of it: Some of our Pilots fay 'tis best to leave it on the Starboard or Western side; I think (says Captain Herring) the other the best, because on the Larboard fide of the Main from the Point next above the Island, to the lower end of the Reach, it is all along flat off a great way, which makes the Channel narrow, and it lies close under the Island, having no where above 3 \(\frac{1}{2}\) to 4 Fa. therefore (fays the same Author) upon Experience of both ways, the Choice has been, with the Ebb and in great Ships, to leave the Island on the Eastern or Larboard side; to which end, as soon as you have a fair fight of the Island, and are below the Shoal last mention'd, you must stand over to the Starboard Shore; and to prevent being horfed by the Tide upon the Point of the Illand, you must keep the upper Point of the little River (called John Terdoe's River) to close aboard, as that you might leap from the Yard-Arm 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 find your felt that below the other Point.

If you are not in very great haste of your way, it would be prudent always to contrive to pass by this Island at the first of the Slack; and to that end, if you are upon an Ebb Tide to come to an Anchor about ½ a mile above the Island, till the next Flood is spent: but then you must be sure to ride under the Starboard Shore, because 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 same Shore till you find the Tide is spent in the Ossing; and even then, go but a little out, till you come down as low as the Rangumata Point, which is quite clear of the Island. In this Course, and by this Caution, you will have a fair Channel and deep Water, without Ridges or Shoals, till you are quite below the Island.

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When you come to the Point of Hegelay River, be very cautious, and come no nearer than 7, or at farthest 6 Fa. upon any occasion whatever; but stand over to the S. Shore (for here the River lies E. and W.) to the Dutch Rendezvous; otherwise the Ebb of both Rivers joining will certainly push you down upon the Shoal, which runs out from behind Huge-ley Point.

Being past the Mouth of the *Hugeley*, you come to the Passage called the Narrows; they lie winding, but nearest E. by S. and W. by N. The Passage is not every where alike deep from fide to fide; but where there is shoal Water, 'tis deep enough for most Ships that come that way The shoalest places are,

1. Just behind the Point of Hugeley River.

2. In the Bight of the fecond Reach on the Larboard Shore.

3. On the Starboard Shore, about 1 mile thort of the lower part of the Channel called the Narrows. The Tide runs fo very strong in this Passage, as well the Ebb as the Flood, that it is more prudent to lose an hour or two of the Tide, whether going up or down, than to run the hazard of anchoring in such a place; the best of the Course (go at what time you will) is in the Mid-Channel, because of the Eddies, which especially on the Ebb are very strong in several places on both Shores, and chiefly on the Larboard Shore, where they will entangle your Ships so that you will hardly get thro the Passage, till you clear your self of the Eddies, and get first out into the Channel. Bring a single Tree which stands on the Western Shore, and which is the Mark of the Diamond Sand, to bear S. by W. from you; then you may know you are in the middle of the Mouth of the Narrows.

The Diamond Sand stretches from the Western Shore below the Narrow Point E.S.E. the E. Point of the Narrows lying about Musketshot short of a little Creek on the E. Shore, which Creek is directly opposite to the aforesaid Tree; the Tree and the Creek bearing due E. and W. without one another. This Sand is dangerous and steep, and in going down with the Ebb, you must take care not to borrow of it by any means, especially with a great Ship: For your safety in that case observe,

1. From a great spreading Tree at the lower Point of the Narrows on the Starboard Shore, be sure to stand directly over to the E. Shore, steering E. by S. or E.S.E. not farther to the S. but so as to get over with a Tust of Bushes higher than the rest.

2. Then keep the Eastern Shore close aboard, till you are past the Creek above camed, and afterwards also, allowing only a small Birth to the Point of Rognes River, call'd by the Country Adegon. Hold this Course, if the Wind will permit, to the place called the Channel Trees.

3. Going down with the Ebb, it is not fafe to come too near the Shore, till you are near the Creek; then you may fland boldly in with your Lead, till you come to 3 ha, or while you can keep the two Points of the Narrows open, but no nearer.

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Trerdoe's River) to close aboard, as that you might leap from the Yard-Arm 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 find your felf that be-

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From Rangumata Point steer over to the eastern Shore, for there is a Shoal below the Point from a Place called the Chocky, where at low Water you have not above 1 ½ to 2 Fa. Water. When you go for the eastern Shore, make for the Mouth of the River Kullkully, or Kilonla: from thence keep that Shore on board quite thro' the Reach, there you will

never have less than from 6 to 9 Fa.

When you come to the lower end of the Reach, stand over again to the W. Shore directly with two Trees, which you will see almost close together: bring those Trees into one, then you are clear of a broad Shoal, which lies off from the E. side of the River two thirds over it.

N B. The best of the Tide here runs on the Starboard side. There is a small River comes in here called by the Dutch Ferken's Sprent, and the Reach they call Porkus, because they used to setch Hogs down that Stream: The Reach is bold from side to side, except a small Shoal in the River's Mouth, and another in the Bight over against the Point of the Rasp House

Reach.

This is called the Rafp-house Reach, from another little River which the Dutch also named so, for what Reason we know not, which comes in just at the Head of the Reach: Before you open the River, you may know where it is by a great spreading Tree which stands on the Point of it. It shoals half Musket-shot or more into the great River, and the Shoal begins above the Point a quarter of a Mile or more; but the Mid-Channel of the main River makes you amends, for there all is bold, and you have 15 Fa. thro' the whole Reach.

From the Rasp-House River keep the same Shore aboard, till you come to a plain spot of Ground, with a round bushy Tree near it, higher than all about it: from that Tree stand over to the other Shore, which bears there S.E. from you, then keep the Shore aboard till you come almost to the Mouth of the River Hugeley, a little short of Tumberly, or Tomber-

lick, or Cockeley.

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A little flort of the River of Rogues lies a Bank of Mud, not Sand, running out from the Shore: you must give it a small Offing: At the upper end of that Bank upon the Shore, stands a

fingle round Bulh, by which you will know it.

From this River, if you have a great Ship, keep the Western Shore close aboard all along as low as the Channel Trees; for here you meet with a great Obstruction in the Mid-channel, that is to say, the great Sand call'd the Middle Ground lies sull in your way: also remember, that about \$\frac{1}{2}\$ of a mile from the Shore, just against the River of Rangasula in the Bight, when Bassalore Point bears from you N. by W. \$\frac{1}{2}\$W. lies a Shoal extending a mile and half in length, and half a mile in breadth, which you must take care to avoid: keep in between this Shoal and the Main in 5 to 6 Fa. the Shore close aboard; simal Vessels may indeed go without it, between it and the Grand Middle Ground, till they come that way to the Channel Trees, but it is not safe for great Ships.

When you make the Channel Trees, bring them to bear S. by E. or S.S.E. from you, and fland in a little below the Creek, and there you may anchor about a Cable's length from the Shore in very good Ground, and wait there for the next high Water, especially if your Ship draws much Water: Then weigh at high Water, and keep the best of the Channel between the Head of the Mixen or Mixen Sand, and the lower

fide of the great Middle Ground.

Then if you have a leading Gale, steer over W. and W. by N. so as to keep the said Channel E. from you, or a stern of you if you can, but not more southerly than E. by S. lest you are carry'd down by the Force of the Tide of Ebb upon the Mixen Sand.

N. B. By this Course you will keep the best of the Channel,

and have 4 Fa. on the first Shot of the Ebbs.

When you are come about half way over, steer away for the Western Shore, so as to fall in with it about 1 of a mile below Gallingham River; there you will have 5 to 6 Fa. shift Ground;

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Ground; then keep along the Shore in about half a mile Offing, as well to avoid a finall Ridge a mile and half below Gallingham, and about 1 of a mile from the Shore, as also to give the upper Point of Kedgare River a sufficient Birth.

When you open Kedgare River, keep still the same Ossing, to avoid being earry'd into a deep Water a little short of the Long Sand Head, and till you come almost to the salse Point of Kedgare: then being got a little within the Shoot and Outset of the Tide, come to an anchor till next high Water, to wait the Opportunity of going down the inner Channel; but order your Matters so, if possible, that you may go that way

by Day-light, for 'tis a very difficult Paffage.

Your next Difficulty is to pass the Shoal of Cockoly: For this you must be sure to take the top of high Water, and a leading Gale; and tho the Ebb makes violently down, yet venture to weigh, and keeping about Saker-shot from the Shore, stand fair down with the Current, till you bring a bushy Tree (which is higher than the rest, and stands between the salfe Point of Kedgare and the upper Point of Cockoley River) to bear N.W. a little westerly; then you will begin to find the Soundings uneven, and they will hold so, till you bring the Tree N. by W. from you, and a ragged Tree on the N.W. side of Cockoly N.W. somewhat northerly.

In this Offing, the least Water you will find will be from 3 \(\frac{1}{2}\) to \(\frac{4}{4}\) Fa. with the aforesaid Offing of half a Mile from the Shore.

N. B. Engely Sand begins at the white broken Cliffs below the Town, and reaches to ! of the River's Mouth, lying thwart in, as you approach the upper Point, half a Mile from Shore.

When you are past Engely Sand, you may take a larger Offing, that is, 1 \(\frac{1}{2}\) Mile or 2 Miles from the Shore, not more: Then you will be fase from the Barrabullo-head, which will bear S. from you 4 Miles from the long Grove Keep on thus, till you come below the Barrabullo, and bring the Kittefall Tr c N.N.W. from you; and then keep with 1 \(\frac{1}{2}\) Mile Offing in

3 ! Fa. foft ouzy Ground.

When you are come almost as low as the Salt River, you must edge farther from the Shore, to avoid a Ridge of hard Ground which lies about the Offing in that River; then you will enter the Swatch between the Braces: When you find your self 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 soft, in 3 to 3 ? Fa. at low Water, then let go your Anchor, and stay till high Water, to go over the Braces upon the sirst of the Ebb.

When you weigh, steer away W. by S. and W.S.W. not more foutherly, because the first Shot of the Ebb sets wholly off from the Shore: With this Course you will not have less than 3 Fa. over the *Brace*, and when you are over, you will be no less than 4 Ls from the Shore, and have a fair Opening into the Bay of *Bengal*, and where else you please to go.

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Salt River, you a Ridge of hard iver; then you When you find indings, and by N. by W. about in 3 to 3 \(\) Fa. at y till high Water,

and W.S.W. not Ebb sets wholly fill not have less over, you will a fair Opening please to go.

may go above the Nicobar Islands N. and below the Adamans S. having Sca-room enough between, and so go away to the King's Channel (as 'tis call'd) within the Isle le Grand, and to the Coast of Mergi N.E. by N. If you are bound to Pegu it self, keep a more northerly Latitude, and stand over in 15 d. to Point Negrais, and the Diamond Islands.

Some advite, in failing to the Coast of Pegn, to pass between the Coros and the most northerly of the Adaman Islands: The Reason indeed is good, if you are sure to hit the Passage, viz. Because the Winds generally blow there hard at S. which join'd with a very strong Current setting hard into the Bay, makes it dangerous to go lower or farther S. among the Mortavan and Adaman Islands, which are very difficult Places; and yet they say, if you keep a more northerly Latitude, it may endanger losing your Passage, and being push'd up too sar into the Bay.

This Passage is fair enough, if you steer a due Course from the W. that is, go away E. by N. from Lat. 12 ½ on the Coast: When you are thro' this Passage, you must steer N.E. by N. for the *Point Negrais* on the S.W. Coast of *Pegu*, or N.E. if you would make the *Diamond Islands* and Rocks, or E. by N. and E.N.E. if you would go for the Gulph and River of *Pegu*.

If you go away for the Cape Negrais, or the Diamon's as above, be very careful of the Preparies Rocks, or, as our Seamen call them, the Peperies, which are a great Cluster of Rocks in the Fair Way: If you are bound to Isle le Grand, you leave them on the Larboard-side a great way; but if you go for the Diamonds, you leave them on the Starboard-side, and go sometimes just by them. 'Tis true, they are in fight above Water and to windward, so the danger is the less: They make at Sea like so many Ricks of Hay, and must be carefully look'd for in the Night.

As I have faid, the Ships may be in danger upon this Coast of losing their Passage, or of being driven up the Bay; so it must be observed, that in such Case they usually make the Port and River of Negrais, and run in there: 'Tis needful therefore to give what Directions can be had in case of that Distress.

Being at Diamond Point, the Course is N.E. by E. and N.N.E. to Red Point; from whence keeping the Shore close on board, let the Land be your Guide, keeping within the Island of Negrais, and go directly for the Harbour. Note, You may go within Pistol-shot of the Shore; 'tis all a clear Strand till you come a breast of the sandy Point of the Island Negrais; there you may anchor under the Island, land-lock'd and fecur'd from all Winds, and in from 4 to 10 Fa. fost ouzy Ground. When you break Ground from thence, you will fee a small Island lie about 2 Ls off, bearing S.S.E. from you; take heed of a dangerous Shoal which runs out from that Island W.S.W. into the Sea, 'tis very broad and dry at low Water: You may run between it and the Sand, but then take care to give the Island a Birth of 2 Miles at least on your Larboardfide. 6 Ls from this Sand also lies the Channel between the Diamand Illand and the Main leading to the River of The New Montyou, and mine experience in the configuration

3 + Fa. foft ouzy Ground.

When you are come almost as low as the Salt River, you must edge farther from the Shore, to avoid a Ridge of hard Ground which lies about the Offing in that River; then you will enter the Swatch 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 fost, in 3 to 3 \(\frac{1}{2}\) Fa. at low Water, then let go your Anchor, and stay till high Water, to go over the Braces upon the first of the Ebb.

When you weigh, fleer away W. by S. and W.S.W. not more foutherly, because the first Shot of the Ebb sets wholly off from the Shore: With this Course you will not have less than 3 Fa. over the *Brace*, and when you are over, you will be no less than 4 Ls from the Shore, and have a fair Opening into the Bay of Bengal, and where elfe you please to go.

Thus we have given full Directions for failing both up and down the River Hugeley; It cannot be expected we should do the same for those Parts which are not known to be practicable. The Entrances up the Ganges are many; and that part call'd Hugeley River is but one; But we do not know any of the rest to be navigable, as we know this part to be, which has been furvey'd and founded with great exactness by the most experienc'd Pilots both English and Dutch.

From the Mouth of this great River, the richest for Commerce in all that part call'd Easiern, we have no exact knowledge of the Coast, only that the Nicobar Islands are beyond the Coult of Pegu, and in the Fair Way of our Trade to Sumatra: We know little of them, and have little business with them, and therefore no exact Survey has been taken on that fide.

Nor do we know any thing of the Coast of Bengal on the eaftern fide of the Bay: The Charts and Maps indeed describe a Coast here, and they plant great Cities and Rivers upon the Shore, in particular a capital City call'd Bengal, which upon Examination cannot be found.

Nor have weany exact account of the Seas on this Coast that may be depended upon, from the Coast of Bengal to the City Achin or Sumatra, or to the Streights between Malacca and Sumatra; therefore all we can fay upon that Head, is to direct our Ships not to venture upon the Coast, or to sail for Achin within a confiderable distance of that Shore, or of the Islands that lie upon it; for all the Coast of Tegn, and of the Land S. of it to the Latitude of 7 or 8 deg. N. is throng'd with Islands and Rocks numberless and undescrib'd, and that to an Offing of 20 to 30 Ls from the Shore.

If indeed you are bound into the River of Pegu, or to the Coast of Mergin and the Isle le Grand, Places much out of the way of Bufiness, as the Trade now lies, then you must go away from the Bay or Coast, according to what Latitude you are in; suppose you are upon the Coast of Coromandel, or of Golconda, the best Latitude to make the Coast of Pegu in is that of 12 d. 30 m or 11 d. 10 m. in either of which you

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fore to give what Directions can be had in case of that Distress.

Being at Diamond Point, the Course is N.E. by E. and N.N.E. to Red Point; from whence keeping the Shore close on board, let the Land be your Guide, keeping within the Island of Negrais, and go directly for the Harbour. Note, You may go within Pistol-shot of the Shore; 'tis all a clear Strand till you come a breast of the sandy Point of the Island Negrais; there you may anchor under the Island, land lock'd and secur'd from all Winds, and in from 4 to 10 Fa. soft ouzy Ground. When you break Ground from thence, you will fee a small Island lie about 2 Ls off, bearing S.S.E. from you; take heed of a dangerous Shoal which runs out from that Island W.S.W. into the Sea, 'tis very broad and dry at low Water: You may run between it and the Sand, but then take care to give the Island a Birth of 2 Miles at least on your Larboard-6 Ls from this Sand also lies the Channel between the Diamond Island and the Main, leading to the River of Pegu S.S.E.

If you are obliged to go into the Harbour of Negrais, obferve as you go in, to keep the Main close a-board on the Starboard-fide, and go on so till you are quite within the Point, for there lies a Shoal in the middle of the Entrance.

From the Diamond Island to Pegu the Course is E. by S. and E. S. till you are past the Shoals, which lie off from the southern Coast of Pegu, and which reach far into the Sea, in some Places 10 to 15 and 20 Ls, tho there is a good depth of Water over great part of them: The Direction is to steer from the low Point of the Diamond Island to Braque, a Point lying N.E. by N. from it upon the Main, dist. 25 Ls; 'tis a very high remarkable Point, and those that have sail'd this Coast all know it.

From this Point you have a clean Coast to the Mouth of the River of Pegu, and you may keep along the Shore within 3 to 4 Ls: The Mark for sailing in is three Trees on the W. Point of the Entrance. There is also a Bar upon the Entrance, with not above 12 to 13 Foot at low Water, and a very sierce Current out; but there is more Water in with the Flood, and when you are in it is deep enough.

As you must trade with the utmost caution upon this Coast, 'tis much better not to run into these difficult Ports; and therefore 'tis worth notice, that there is an Island call'd Little Negrais, in the Mouth of a great River call'd the Salt River, and that there is good riding as well for Trade, as for Security out of the reach of any Enemies.

The several Directions of other Artists, as well for this Port and Island of Negrais, as for the River of Pegu, are as follows, viz.

O fail from Arracan, you had best fail in by the Broken Island to the southward, and then run downwards along the Shore, till you make the other Island, in the middle of the River's

Sailing Directions for the

River's Mouth: You leave the Island upon the Starboard-side, that is the best Channel, call'd the New Deeps: You must be very cautious in trading here, and carry on all your Business 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 2 Saddle-Hill upon the Island.

As you turn in, Great Negrais stands upon the S. Point; it is built on a small Hill, a little Pagode and four Teddy Trees standing singly upon the same Hill, and all to be seen; which, is very remarkable. The Point is bold going in; and within by Little Negrais, as well as in the River at Great Negrais,

are feveral very good Harbours.

You fee the Town and Harbour of Little Negrais before you go in to the River; it is call'd also Dear Island: It stands without, on a small Island about 3 Miles long and one broad; at the Entrance of the large River Negrais. This Island lies in 16 d. 12 m. N. and distant from the southermost part of the Great Negrais 4 Ls; they bear from one another S. half W. and N. half E. On the northermost end of this Island is a large high Hill, and on the Top of this Hill a Rock, whence arises a Spring of good Water. Some part of the N.W. end of this Island at Spring-Tides is cover'd with the Sea.

The Salt-water River, in the Mouth of which this Island lies, is navigable far up for Ships of the greatest burden; but on the Larboard-side going in, lies a Ledge of Rocks about a Pistol-shot from the Shore, dry at low Water; and if you have need, you may keep them close on board, without danger; but standing over to the eastward, you will have 4 Fa. Water: But if you should be forced to stop a Tide, under these Rocks is the best 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, especially if you keep the great Island on board, but it is all clean Ground; the best anchoring is near the low sandy Point, on Little Negrais: By this Point there is a little Creek running up into the Island, 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 Winds: Also there is good ways for laying Ships a-shore: The watering place is at the Foot of the Mountain, at the N. end, as aforesaid: Here you may ride in 5 Fa. ouzy Ground, half a Cable's length from the Shore.

Sailing Directions for entring into the Opening of the Great River of Pegu over the Bar,

Being off of the Opening or Entrance of the River, first bring the Bowl-of-Punch Trees to bear N. by W. half W. and steer right with them in that manner: This carries you over the best of the Course; then you come into 5 Fa. and so haul up N.W. and N.W. by N. edging on and off on the western Sand, between 5 and 4 ½ 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 sirst Reach lies N.E. half N. you must keep the Larboard-side on board, in from 5 to 16 Fa. gradually,

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the River, first W. half W. and arries you over fa. and so haul on the western: From thence of the River to rees bear N.E. I must keep the Fa. gradually,

will shoal your Water to 3 1, and 3 1 Fa. but presently deepen again to 6 and 7 Fa.

On the E. side of the southermost of the Cocos Islands, which lies in the Lat. of about 14d. 20 m. N.E. by N. from the N.E. end of the Great Andaman, is very good anchoring, in a sandy Bay, where is Wood and Water easy to be come at.

Along the W. fide of the Andaman Sand are many Coral Grounds, and in some places other large Rocksand great Overtalls; in some of which is ouzy Ground, but very little. Here is much Rock-Fish.

Here follow, from Mr Davenport, the latest Directions for the Entrance into the Negrais.

It has been affirmed by feveral who have been at this Harbour, that from the W. Point of the Island call'd Little Negrais, or Dear Island, which lies on the S.E. side of the Harbour, there runs a great and dangerous Riff quite over to Diamond Island; which with funken Rocks, and Breakers by them, renders the Opening unpassable, even by a small Boat: From whence they feem to infer, not only an Impossibility of going to the Island, but also an absolute Necessity 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 eastward between the Legeade and Diamond Island, or from the westward out of the Sca, it is best, if you have a leading Gale, to bring Diamond Island E. from you about 6 or 7 Miles distance; at which time you will have 12 to 13 Fa. fandy Ground, and the Pagode Point, or Westmost Bluff Point, on the opening of Negrais, bearing N.E. from you: So you may fecurely fleer in for the Point, and giving the Rocks that lie a finall distance both off that and the next Bluff Point a Birth of about half a Mile, you may boldly stand in for the River, and not expect less in the Entrance than 4 Fa. and half at low Water: Nor can I think that Course, with a westerly Wind and a Tide of Flood to be too venturous, with regard to the easterly Flat at the Entrance into the Harbour: And those Affertors of an unpaffable Riff or Ledge, lying between their two Rocks, must give me leave to lay they are mistaken, having by Experience found the contrary: And as I perceive they speak by guess, I can with more certainty say, I have found that those Breakers, which with the S.W. Mon foon appear very high and dangerous, do neither render the Opening unpassable, nor proceed from any foul Ground or funken Rocks, but from a Sand which lies 4 Miles and half into the Sea from Dear Island, being a level Sand, and affording among the highest of those Breakers 3 Fa. at low Water: Not that I would have any one be too bold with it, by reason of the untoward Seas which often run upon it with the first of the Flood, especially if an out-wind blow fresh Nor, on the other side, are you tied up at the Entrance into the Harbour to keep close on board the Pagode Rocks: For if the Wind blow westerly off Shore, or easterly, so that you cannot lead it in upon a Stretch, you may stand over as far as you please toward Diamond Island; but then you must be sure to keep the Pugede and the Rocks, with the Red Cliff on Pagode Point, in one, or very little open to the castward of the said Cliff;

Creek running up into the Island, 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 Winds: Also there is good wavs for laying Ships a-shore: The watering place is at the Foot of the Mountain, at the N. end, as aforesaid: Here you may ride in 5 Fa. ouzy Ground, half a Cable's length from the Shore.

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Sailing Directions for entring into the Opening of the Great River of Pegu over the Bar.

Being off of the Opening or Entrance of the River, first bring the Bowl-of-Punch Trees to bear N. by W. half W. and fleer right with them in that manner: This carries you over the best of the Course; then you come into 5 Fa. and so haul up N.W. and N.W. by N. edging on and off on the western Sand, between 5 and 4 1 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. The first Reach lies N.E. half N. you must keep the Larboard-side on board, in from 5 to 16 Fa. gradually, and then shoaling to 14, 11, and 9; at which time you will enter the second Reach. Then steer N.W. keeping the Larboard-side of the River in the depth of 8 to 8 + 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 enter 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, so that you must stand over for the Larboardthore again, where you will have 7 Fa. but if the Tide heave you up to the westward, and the Wind falls off, you will

Sailing Directions for the Coasts of Sumatra, a the Streights of Sunda, as the Eastern Coas Streights of Sincapore inclusive.



ROM the River of Pegu to the City of Achin on the N. Point of the Island of Sumatra, as we have no Commerce with the People, fo we have no Survey of the Coast of their Country: Our Maps and Pilot-Books call it the Country of Tannafary;

the only Part we know of it is the Coast of Mergi, or Mergim, and the Island Grande, where our Ships sometimes put in to Trade, and which is mention'd above.

The Nicobar Islands lie off and parallel with this Coast, being fituate about 100 to 120 Ls W. and if we begin at the Island Cocos N. and measure to the main Island properly call'd Nicobar S (for they are all, the falfly, reckoned to the Nicobar Islands) they are in length N. and S. 150 Ls, but very

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the River, first W. half W. and carries you over Fa. and fo haul on the western e: From thence of the River to rees bear N.E. u must keep the Fa. gradually, h time you will ceping the Lar-8 + Fa. Water, ode, bearing N. g to 10 Fa. and id then you will he depth on the a. As you fail e Starboard-side or the Larboardthe Tide heave

the easterly Flat at the Entrance into the Harbour: And those Affertors of an unpassable Riff or Ledge, lying between these two Rocks, must give me leave to say they are mistaken, having by Experience found the contrary: And as I perceive they speak by guess, I can with more certainty say, I have found that those Breakers, which with the S.W. Monfoon appear very high and dangerous, do neither render the Opening unpassable, nor proceed from any foul Ground or sunken Rocks, but from a Sand which lies 4 Miles and half into the Sea from Dear Island, being a level Sand, and affording among the highest of those Breakers 3 Fa. at low Water: Not that I would have any one be too bold with it, by reason of the untoward Seas which often run upon it with the first of the Flood, especially if an out-wind blow fresh Nor, on the other fide, are you tied up at the Entrance into the Harbour to keep close on board the Pagode Rocks: For if the Wind blow westerly off Shore, or easterly, so that you cannot lead it in upon a Stretch, you may stand over as far as you pleafe toward Diamond Island; but then you must be sure to keep the Pagode and the Rocks, with the Red Cliff on Pagode Point, in one, or very little open to the eastward of the faid Cliff; and the S. Point of Diamond Island no farther S. than S.S.E. for so you shall never have less than 4 and half Fa. and will keep without the Pitch of Little Negrais or Dear Island either; I say you will keep without the Pitch of the Flat, and fo may stand in securely: Nay, if there were Occasion to pass to the northmost Island, keeping in the aforenamed bearing, to half a Point more E. till you come without a short Mile of it, you may fafely do it; for in that Tract you have 6 to 7 Fa. and may steer right in for the Mouth of the Povean River, on the E. side of Dear Island, in 5, 6, and 7 Fa. only minding to give the Flat which lies eastward a small Birth, by keeping Mid-Channel.

of Sumatra, as well the Western Coasts from Achin to e Eastern Coasts thro' the Gulph of Malacca, and the

City of Achin *iumatra*, as we le, so we have try: Our Maps of Tannasary; gi, or Mergim, times put in to

s off, you will

this Coast, beve begin at the properly call'd ned to the Nio Ls, but very

often with the Intervals of 20 to 30 Ls between, as in particuiar between the Island of the Car. Nicobar, and the southermost of the Andemans call'd the Chitte Andeman, or Little Ande. The Nicobars lie in Lat. 7 d. 26 m.

Our Ships often put in at the fouthermost of these Nicebars for fresh Provisions, and sometimes for Shelter in strong southerly Winds; the Island call'd Nicobar in particular, having a good Bay and good anchoring on the N. fide, and a good Channel thro' between it, and another Island due N. from it. Here they ride in 12 to 15 Fa. good holding-ground, and per-

feetly fecure from all Winds that blow except the N.E. From the Road on the N.E. Point of Nicobar Island to Achin on the Island of Sumatra, the distance is 40 Ls. the

Course lies S. by E. and S.S.E.. Achin lies in Lat 5. 40. No at the Extremity of the Island of Sumatra, distance from the Island of Junkseylona N.E. by E. and S.W. by W. 80 Ls, and from Queda E. by N. and W. by S. 110 Ls: 'Tis a safe easy Port, well frequented; the Road is to the eastward of the Costle; you have 7 to 8 Fa. at high Water, and 5 to 6 at low Water: And if you are willing to go farther in, there are Pi-

lots to be had, as well European as Natives.

If from Achin you would fail down the W. Shore towards the Streight of Sunda, either to Priaman or Bencoulin, which are the ulual Pepper Ports, as the Sailors call them, and whither our Ships chiefly if not only fail, you are to be told in general, that it is a most dangerous Coast, full of Islands, Rocks and Shoals, Indject to long Calms and fierce Currents, especially between the Islands and the Main: For this Reason, and as we know nothing of the N.W. and W. Coast of Sumatra, and have not the least Commerce with the People, till you come to the Port of Priaman, which is almost directly under the Line, 'tis best to go away from Achin W. then about the Point of 'Dama S.S.W. Then go away out to Sea, till you come into 3 deg. N. keeping off from the Coast of Sumatra at least 35 to 40 Is; then steer S. by E. and S.S.E. keeping the fame Offing, till you come within 1 deg, of the Line; then go a Point more to the castward, till you cross the Line, and come a breast of the Streight between the Island Nantian, or Nantom, and the Island of Good Fortune. Note, You are not to come nearer the Main than the distance mention'd above, till you come into the Lat. of thefe Iflands, then stand in till you see them.

Keep in Lat. 10 20. and you'll fall in with the N. end of the largest of the two Islands, call'd the Good Fortune, which is near 20 Ls long. There are many small Islands about it, but they are bold, and there are no Dangers but what are seen. The Island of Good Fortune is the boldest of the two; but its safe to keep your Lead going, and go on in 10 Fa. then you can be in no danger of a Surprize. When you are shut within these Islands, your Course is E. by N. directly, and a clear Coast: However, it is not advisable to make too fresh way in the Night on this Coast, but rather Hull and he by, and go on in the day. The distance from these Islands to

Priaman is about 18 Ls.

Tho the Course generally in this Run is W.by S. (for Priamul and these tslands lie W.by S. and E. by N.) yet you must steer away E.N E. and N.E. by E. till you make the Hummocks on the Main, which you will see before you can see the Shore, which is low flat Land. When you have fight of those Hummocks, stand right in for Sumatra, you will soon come to the sight of the Main.

When those Hummocks bear N.E. from you, look out well, and keep your Lead going, for there are several stony Banks, and some Shoals just there, to be discover'd by the Lead. When you find those Shoals, and have 6 Fa. Water, then you

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E. from you; then you may edge off to the Starboard towards those Islands. They he about 13 Ls from Priaman. There is a Road on the S. fide of those last Islands, which has but 4 Fa. foul flony Ground; but keeping to the Main as above, you will find 12 to 16 Fa. Nor are there any dangers on that fide, only observing your Depths by your Lead, which you must keep going all the way.

Being in this Latitude your Course is S. by E. along Shore, till you come into 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 to fay in 4. 10. there is a very good Road under an Itland hard by the Main, and not far off of the Entrance into Benevuli; here you may ride fecure in 7 Fa. good holding-ground, and may fleer in from hence E. by S. to Bencouli.

But being bound for the Streights of Sunda as before, your Course is along S.S.E. About 2 L.S W.S.W. from the last mention'd Illand, there lies a very dangerous Shoal of Sand off in the Sca: You have no other way to know it by, but feeing the Sea break most violently upon it; you cannot come near the Soundings of it, for it is all uneven and very hazardous; but keep near the Island, giving the Point of Sellab ir a good Birth, and to keep along Shore, as above, S.S.E. cafterly, till you make a little Island close to the Main, in the Lat. of just 6 deg. Then you will fee a round Hill due E. from you on the Main of Sumatra; keep on in fight of the Hill, till you come a breast of three Islands which lie off of the Point of Sumatra: When you are up with these Islands, the round Hill will bear due N. from you.

Those three Islands are distant from the above little Island about 4 Ls, they lie E.S.E. and W.N.W. The Land on the Water's Edge is moderately low, but within the Country it is exceeding high and mountainous. The depth of Water increates here, for you have 54 Fa. close by the Shore: But E. and W. from the three Islands you may anchor in 16 Fa. and farther up, when the round Hill bears due N. you have 30 Fa.

Within those Islands is the Road of Marrough: If you are bound thither, you may bear in boldly between the Islands; the Channels in all are good, fleering N.E. by E. till you come to the Main; there you will have 20 to 30 Fa. and no Dangers but what are feen, so you have nothing to do but not to run up in the Night.

When you are come in with the Main, you will be 4 Ls W.S.W. from the Head-land, or Cape call'd Marrough Point. Keep on then E.S.E. to the Road, for that lies along Shore from the three little Islands mention'd above, till you come almost to the S. Point of Sumatra, which makes the Entrance into the Streight of Sunda. In all this Course you will see the Land to the northward very low, and the Shore spread with little Islands; but you must make up to the Head-land of Sumatra, and then keep on under shore, as above.

When you come into this Road, which is very good for 3 or Is give the Shore a fair Birth, and anchor, where you within their Islands, your Course is E. by N. directly, and a clear Coast: However, it is not advisable to make too fresh way in the Night on this Coast, but rather Hull and lie by, and go on in the day. The distance from these Islands to Priaman is about 18 Ls.

Tho the Course generally in this Run is W.by S. (for Priaman and these Islands lie W.by S. and E. by N.) yet you must steer away E.N E. and N.E. by E. till you make the Hummocks on the Main, which you will see before you can see the Shore, which is low flat Land. When you have fight of those Hummocks, stand right in for Sumatra, you will soon come to the fight of the Main.

When those Hummocks bear N.E. from you, look out well, and keep your Lead going, for there are several stony Banks, and some Shoals just there, to be discovered by the Lead. When you find those Shoals, and have 6 Fa. Water, then you have but just 6 Ls to Priaman. The Land about it is high, and like a Saddle; the Middle of those high Lands bears N.E.

by E. from you, when you are at anchor in the Road.

There are four Islands before the Road; you cannot open those Islands as you come from Achin N.W. and therefore take care not to go within them on that side: But when you come from the Sea more southerly, you have a good Opening, and may sail between, leaving two of them on one side and two on the other: But be sure to give a good Birth to the little outmost Island towards the main, for there is a Sand lies off on every side of it; come no nearer to it than 8 Fa. at the nearest, till you get up with the other three Isles which lie all in a Line: Then keep to the southward of the northermost of the three, and under the Island is the Road, where you may come to an anchor in good Ground, and well secured: You may run bold in, and anchor where you please in 4 or 5 Fa.

Between this Island and the Mouth of the River, which is the Port and comes down from the Town, the Channel is but narrow, about the same breadth as the *Thames* is at *Blackwall*. Be sure to moor your Ship well, for the Currents and Freshes run sharp: On that Island you may have good fresh Water, but trust none of the People. You are 7 Ls distance here from

Trent

When you weigh from this Road of Priaman, go on within the Islands to the fouthward, keeping the Main on board: Venture not in among any of the Islands, for the Channels between them are full of Shoals and foul Ground; but keep in 5 to 6 Fa. the Island of Sumatra under your Larboard-Bow. Nor is it convenient to fail by Night upon this Coast, but rather come to an Anchor till you have more Sea-room, which will be when you come into Lat. 2. 13. The Reason is, that when you fail thus under the high Mountains of Sumatra, and the high Lands which lie a little off of Priaman, you have frequent Gusts and Squauls of Wind, especially in the Night; so that you had better keep all close, and lie still in the Night. Then in the Day keep on under the Shore, till those high Lands bear

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When you are come in with the Main, you will be 4 Ls W.S.W. from the Head-land, or Cape call'd Marrough Point. Keep on then E.S.E. to the Road, for that lies along Shore from the three little Islands mention'd above, till you come almost to the S. Point of Sumatra, which makes the Entrance into the Streight of Sunda. In all this Course you will see the Land to the northward very low, and the Shore spread with little Islands; but you must make up to the Head-land of Sumatra, and then keep on under shore, as above.

When you come into this Road, which is very good for 3 or 4 Ls, give the Shore a fair Birth, and anchor where you please in 10 to 12 Fa. The Ground is very good, and here the People are conversible, and you may get good Refreshments

and Provisions.

N. B. Here you are in 86 deg. of Longit, from the Cape de Bonne Esperance.

N. B. At the Entrance of the Streight of Sunda lies an Island call'd the Salt Hill, rather nearer to Java than to Sumatra.

When you come open with the Streight, if the Weather is clear, you may see both Mains at once, that is, the Islands of

Sumatra and Java.

The Stream in the Streight fets 12 Hours in and 12 Hours out, and runs with very great force, so that sometimes you cannot stem it, no not with a very stiff Gale: In which case you must make to one side or other, as the Wind lies, 'tis no matter which, and anchor under the Islands till the Tide turns.

If you put over to the Sumatra fide, go in a little between the Island that makes the Streight and the Main, keeping nearer the Main than the Island, because there is a Rock in the Fair Way W. by N. from the Point of the Main: But you will see it either above Water, or by the Breach of the Sea if the Water be over it. Here you he fair to take the first turn of the Current castward thro' the Streight, either to run thro' between the Island and the Main, or about the Island to the S. and so take the best of the Streight in the main Channel, the Course to the Islands Cracatoa is E. by N.

If you are bound to Bantam on the N. Coast of Java, keep to the Java side of the Streight, till you make Point Palimbam, which is the farthest Head of the Island of Java N.E. As you go about, give the Cape a large Birth,

then fland away E.S.E.

N. B. Point Palimban lies S.E. by S. from the Head-land

of Sumatra, which makes the Streight: About 6 Ls. dift. From your Offing N.E. from Point Palimbam, stand away S.E. by E. till you make the flat Island call'd Pulo Feajong,

Sailing Directions for the Coast

or Panjang: This Island is distant from the S.E. Land of Sumatra 9 and half to 10 Ls S.E. by E. and lies in the Entrance to the Bay N. by W. from the Port of Bantam.

Having made the Island, come no nearer to it than 5 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 steer for the Road, for the round Hill stands 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 *Pulo Hemas*: These are five little Islands just in the Fair Way to the Road: And just within them you will fee the Town, and the Ships riding under the Islands before it: You may anchor there, where and in what depth you will, from 4 to 16 Fa. good ouzy Ground.

N. B. The Tide rifes here upon the Flood at ordinary Tides

5 Fa. right up and down.

From this Road of Bantam to the Road off of Batavia, inclusive of the deep Bays in both the Ports, the distance is 22 Ls.

From this Road to the S.E. end of the Island of Banca the

distance is 60 Ls, the Course N.N.E.

From Point Palimbam at the E. end of the Streight of Sunda, to the Port of Old Brandermassin on the Island of Borneo, is 175 Ls E. by S. and E.S.E.

But we must go back now to the N. end of the Island of Sumatra, viz. to Achin, in order to give some Directions for the E. Coast, and for failing down the Coast of Malacca to the

Streights of Sincapore, Gc.

When you come out of the Road of Achin, you must 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 Ls and a half from the Points: your Course then is E. by S. to the Diamond Point, or Point Panjang, which is a little to the S. of old Oneda, dist. 42 Ls: it is indeed very rare to lead it thro' this length along Shore, the Winds being so variable and unsteady on this Coast; when therefore you are come about half the Course, let it be in what Latitude it will, keep an Ossing of 5 Ls, but no farther, for sear of a northerly Current; and if the Wind sails, 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 constantly, because the nearer *Point Panjang*, the deeper is the Water, tho the Channels are uncertain. S.E. by E. from *Point Panjang* there lies an Island called *Pulo Varror*, or *Vereur*.

N. B. The Word Pulo, or Poulo, in the Malayan Tongue, which is chiefly used on all these Coasts eastward as far as China, is understood to signify an Island; 'tis also so understood by the Siamese and the Chineses of Cochin China, as well as by others.

This Pulo Varror is distant 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

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lood runs open Sca Sand, yet you will have 8 Fa. over it, and after that 17 to 18 Fa. gradual Soundings quite to the Shore.

Pulo Parcelare and the Point Iarroe lie E. and W. dist. from one another 20 Ls. Upon the Main of Malacca stands a Hill called also Parcelare, and from which the Island is supposed to take its Name; it stands upon a Point or Neck of Land, all

the Country being flat and level round about it.

From Pulo Parcelare the Coast lies along S.E. half E. to Rachado, dist. 12 Ls: The Fair Way lies close under Shore part of the way, and no where in above 2 Ls Osling; yet N of Cape Rachado there lies a Sand Rist, which shoals upon you from 20 to 9 Fa. in half a Glass's running, and sometimes the

Sea breaks violently upon it.

From Capé Rachado to the Entrance into the Port of Malacca is 9 Ls, the Courle is nearest S.E. and you steer all the way within a L or two thirds of a L from the Shore; 'tis a fair clean Strand, and all secure. S.E. from the Cape, and on the NW. side of the Road of Malacca, lies the Wood Island, called so because the European Ships take in Wood there, and because 'tis very plentiful. Leaving the Island half a L, you presently open the Road, and have the Town of Malacca fair in view; the Road is very good and sate, and you may anchor in what Depth you please: The best of the Road is in 5 Fa. You may have more Water farther S. but then you lie open to frequent Gusts and Squals from the N.W. from off the Hills, and which may endanger your running upon the Wood Island, which is very foul for half a L off on that side.

There is another Channel on the W. side of the Sands, and between them and the Coast of Sumatra; but the Soundings are very uneven, nor is the Course thorowly surveyed. Some Ships have been forced thro' on that side, and have done well with the utmost Care and Toil, keeping at least 2 Boats always a head, sounding the Ground to an Inch, and placing themselves as Buoys on either side to mark out the Shoals and the

Channels.

If you would go from Malacca thro' the Streights of Dryon, on the W. fide of the Islands of Malacca, you must steer away ES E, for those Islands bear E.N.E. from Malacca: Keep that Course till you bring them to bear N.W. by N. dist. 5 Ls. Then Cape Formosa will be 6 Ls dist, 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 Pesang E. by S. half S. when its 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 same Course your Depth will shorten again to 4 or 5 Fa. and if it is in the Night, you would do well to come to an Anchor; and if you can, be sure to ride so as to have Point Pesang bearing E. by N. and Pulo Carimon S.E. there you will have from 3 to 5 Fa. not less than 3 any where.

The Islands of Carimon are 3 or 4, all close together, and the Land very high; the southermost is the highest. Having past the Islands where you anchor'd to the southward, or S.E. by E. go on so till you see the southermost Carimon bearing due S. about 5 Ls. from you: in the Fair Way you will have

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 constantly, because the nearer *Point Panjang*, the deeper is the Water, tho the Channels are uncertain. S.E. by E. from *Point Panjang* there lies an Island called *Pulo Varror*, or *Vereur*.

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This Pulo Varror is distant 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 much stronger than the Ebb; it flows in the open Sea W.S.W. and yet upon the Island the Flood sets S.E. by S.

The Watering-place (for here is very good Wooding and Watering) is on the S.W. part of the Island; the whole Island is

steep on every fide, and almost all Rocks.

8 to 9 Ls, S.S.E. from Pulo Varror lies the Water Island; and between, E. by S. and E.SE. 20 Ls farther, lies the Island of Arroes or Iakroes, which is rather a great Rock than an Island: when this Rock bears W. by S. 7 Ls from you, then you will get fight of Pulo Parcelare, lying at the nearest E. by S. half S. from you, steer either W. or E. as occasion requires, to bring it to the Position and to that Distance also; which you may easily do; for if you have the Channel open, the Tide of Flood sets strong S.E. by S. at the Rate of 2 miles an hour, and the Ebb sets N.W. or N.W. half W. tho the Tides change frequently here, as the Freshes come down from the Rivers upon the Main of Malacca, for these Islands lie near in with the Shore.

Between the Pulo Arroes and the Sands off Shore is a fair Channel and deep Water, 30 to 50 Fa. in the Channel, tho at such a Depth you have fost Ouze, but on either Shore good hard Ground: The Sands are so steep too, that you have at one Cast 30 Fa. at the next 13, at the next 7; and then if you do not come about immediately, you'll be fast aground. Also in the Channel the Soundings are as uneven, from 50 to 35 and 25 Fa. and between the Sands, the like, from 19 to 13 Fa. If you come to 10 Fa. stand no nearer for fear of the northermost Point of the Sand, for there you have but 5 Fa. when the Island bears E. half S. and at the next Cast may be sast aground. You will see the Breakers upon it at a distance, reaching 2 or 3 miles in length.

When you are past these Difficulties, and are got within the Sands, you will find deeper Water; till you come to 22 Fa. foit ouzy Ground; and tho you should be so far eastward as to see the Trees on the *Pulo Parcelare*, where there is a Bank of

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for those Islands of Malacca, you must steer away E S E, for those Islands bear E.N.E. from Malacca: Keep that Course till you bring them to bear N.W. by N. dist. 5 Ls. Then Cape Formosa will be 6 Ls dist. 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 Pesang E. by S. half S. when its likely you will have but 6 to 7 Pa. but keep on, and it will quickly deepen to 22 and 23 Fa. Then in the same Course your Depth will shorten again to 4 or 5 Fa. and if it is in the Night, you would do well to come to an Anchor; and if you can, be sure to ride so as to have Point Pesang bearing E. by N. and Pulo Carimon S.E. there you will have from 3 to 5 be, not less than 3 any where.

The Islands of Carimon are 3 or 4, all close together, and the Land very high; the fouthermost is the highest. Having past the Islands where you anchor'd to the southward, or S.E. by E. go on fo till you fee the fouthermost Carimon bearing due S. about 5 Ls. from you: in the Fair Way you will have gentle Shoalings from 16 to 6 Fa. Then steer so as to double the Island; but if the Tide take you short, so that you miss of it, bring to and come to an Anchor in 20 to 21 Fa. Point Pefang bearing N.N.W. half W. and the little Carimon S. by E. the latter lying 5 mile from you. When you weigh again, stand away E. and E.S.E. to double Carimon, and till you fee it bearing due W. dist. 3 miles. Then you are clear of all the I. flands abovemention'd, and may go 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. close by them.

There runs a great Current, which fets upon this Middle Ground: the Shoal being founded, is found to be almost all tharp Rocks; but there is Water enough over them, and abreast

of them 15 Fa. within 2 Cables length of them.

There are 3 small Islands lie off, as if in the Fair Way; but the Channel is between the Islands and the Shoal, about a mile and half broad: bring these 3 Islands in one, and then you are abreast of the Shoal. Then bring the Shoal and Little Carimon in one, and you will open a very good Road called the Twins, where the European Ships sometimes ride, and where you will have 17 Fa. well shelter'd from almost all Weathers. From this Road you have a Fair Course down the Channel of the Streights S.E. without any more Obstruction S.

There are some Ripplings, but they are of no importance, the Streights are perfectly open and clear. When you come off of Great Drions, there is a great Rock like a Boat, with some sunk Rocks about it; but you have room enough to go clear of it: If the Tide takes you short here, you may anchor against it in 16 Fa. good safe Riding, the Twins bearing N.E. by N. and

the Shoal above-nam'd N. by W.

From this Situation you weigh, and quit the Streighter, and going away S.E. between two little Islands, and another Shoal called Sabone, you may kedge out between these Islands and a

Pent

Point called Pulo Pantos; then lay it about between Little Dryons and the Oyster Islands, keeping off from the latter, because they are foul: then bringing the Carimon, the Middle Ground, and the foul Oyster Islands in one, stand over to the Great Dryons as near as 14 or 12 Fa. then tack, weather the little round Island in the Mouth of the Streight, and stand away S by E. and S.S.E. 10 Ls, and there come to an Anchor.

N. B. In this Passage you must avoid the Breakers between the little Round Island and the Oyster Islands, but more among the Oyster Islands themselves, and a single Rock visible half a mile to the W. of them: go on then till Lingin bears S.E. by S. from you at the dist. of 7 Ls, then go

away as before.

When you weigh again, steer S. by E. and S.S.E. keeping in 11 to 13 Fa. till you bring the 2 Peaks of Lingin to bear E. by N. 4 and a half Ls from you: there the Tide being spent, auchor again, where you will have 12 Fa. ouzy Ground, the Pulo Calentigas lying half a L dist. from you, and bearing S.W. by S. Then stand away S.E. by E. and S.E. till Pulo Farella

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Sailing Directions from the Coast of Malacca thro' pore, and onward towards th

F you are in the Road of Malacca, but bound to the Straits of Sincapore, you must go out W. by N. till you bring the westermost Island of Malacca to bear from you E. by N. 6 to 6 ½ Ls off; then go away large N.W. that Course will bring you into the main Channel on the W. side of the Sands formerly mentioned; continue your Course N.W. and keep there till you pass the Pulo Irroes; if you are without them W. you have Soundings tho

Then keep the Coast of Sumatra sair a-board, because of the Stream which sets off to the Northward: when Pulo Parcellar bears E. southerly; then you are to the Northward of

in deep Water; but if to the Northward, no Ground at any

the Sands.

Depth at all.

N. B. The Tides here, as was noted above, are not to be depended upon, by reason of the great Freshes which check and alter them extremely. But this may be certain, that at that Island to the southward of Malacca the Flood sets chiefly to the N.N.W. to the Northward of the Islands, and the Ebb sets to the S.E. to the southward of them.

From the same S. Island in the Road of Malacca, the Course is S.S.E. in 20 to 28 Fa. going within half a L of the Island. When you are so far out, as to bring the Island N.W. half W. dist. 6 to 7 Ls, then tack and stand away S.E. till you come off of the Cape Formosa, dist. from the Port of Malacca about 10 Ls. When the Hill or Mount on Formosa bears N.E. by N. and in 16 Fa. you will see Pulo Pesang bears E. by S. half S. and

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comes in one with the N. Point of one of two Islands, which you will see bearing S.E. and N.W. with one another: and then keeping off from all those Islands, go on S. till the Tide is spent again; then you may anchor in 20 Fa. the Calantigas bearing N.W. by N. from you.

N. B. Here the Tide fets strong upon Pulo Farella.

By this time you are past all the Straits: then weighing with the Slack, you stand along the Shore or Coast of Malacca, till you see the Hoz-Point under your Weather-Bow; there you may anchor if you think fit within 2 Ls off the Land in 14 Fa. the Point bearing S.S.E. Then keep on S.S.E. and S.E. by S. in 8 to 10 Fa. till you make Pulo Thoupon to bear N.E. by N. from you, dist. 10 Ls; then S.E. by E. and E.S.E. and you will see the high Land of Monopin upon the Entrance into the Straits of Banca. Here you are at your Choice to go thro' the Straits of Banca, if you are bound to Sunda or to Java, or to go away N and N. by E. into the Seas of Borneo, or to the Coast of China.

Malacca thro' the New and Old Straits of Sincard towards the Coast of China.

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the Tree Islands. In the Sound the Tide parts, and the Flood fets feveral ways.

On this occasion of the Tides being so differing, if you come here in the Night, and have not a leading Gale thro', you were best come to an Anchor. Going on this Course, you will see with and in about 4 Ls of Cardamum two Islands called the Two Brothers; bring them W. 3 S. just to be seen rising out of the Water, and the Point of Pulo Cardamum W. by S. 4 S. Then you will see the Entrance of the Great Strait; it is known by some Trees on a sandy Island, on the S. side of the Entrance.

But the best Course is thus: Bring the N. end of Pulo Cardamum W. and the Tree Islands bearing E. dist. from one another 7 Ls, in 16 to 18 Fa. Then as soon as you see the Bompes, or Tree Islands, run fair by them, till the N. Trees bear W. by S. Then Passage Island will bear E. by N. and a small red Island with 2 Clumps of Trees on it S.W. S. Leave all these on your Larboard side, and run fair by Passage Island, giving it a small Birth of \$\frac{1}{2}\$ of a mile, for there are no Dangers but what you see: Then when Passage Island bears N.N.E. you will see the Straits of Smapore open before you, and pass the utmost Point of Malacca, you will open into the Chinese Ocean.

In all your Course thro' these Straits, you must have a great Regard to the various Settings of the Tides, for they are very uncertain; and if it be calm and dark Weather, you had best come to an Anchor, especially when you have run so far out as to bring the high Land of Bintang bearing S.S.W.

Then keep the Coast of Sumatra sair a-board, because of the Stream which sets off to the Northward: when Pulo Parcellar bears E. southerly; then you are to the Northward of the Sands.

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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 fet E.N.E. and N.E. which will carry you thro' the Narrow Straits, and

Sailing Directions for the Eastern-Seas, from Pu the Bay and River of Camboyda, and to

Teering from the Straits of Sincapore, and being bound into the Chinese Seas, the Course is N. and N. by E. upon the N. Coast of Malacea, till you make Pulo Tingay on the eastern Coast of Siam.

Pulo Tingay is a very high Rock, and may be well called fo rather than a large Island: There is a high Peek upon it, the highest in all these Parts, and several Rocks and Islands lie about it, so that it is by no means safe to come close to it. The Fair Way therefore lies by another Island called Pulo Aure, which lies 20 miles E.N.E. from it. Pulo Aure, is also very high Land, and is known by having two little Islands lying almost close 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 mostnortherly, which is call'd Pulo Tomoon, lying N.W. by W. dist. 3 Ls, and is the largest of all these Islands, and where you may ride in several places with the greatest Sasety. This last Island has a Bay at the S. end, with a Town bearing its Name of Pefang; there is good anchoring before the Town, and good Watering also on the

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But the best Course is thus: Bring the N. end of Pulo Cardamum W. and the Tree Islands bearing E. dist. from one another 7 Ls, in 16 to 18 Fa. Then as soon as you see the Bompes, or Tree Islands, run sair by them, till the N. Trees bear W. by S. Then Passage Island will bear E. by N. and a small red Island with 2 Clumps of Trees on it S.W. S. Leave all these on your Larboard side, and run sair by Passage Island, giving it a small Birth of \$\frac{1}{2}\$ of a mile, for there are no Dangers but what you see: Then when Passage Island bears N.N.E. you will see the Straits of Sinapore open before you, and pass the utmost Point of Malacca, you will open into the Chinese Ocean.

In all your Course thro' these Straits, you must have a great Regard to the various Settings of the Tides, for they are very uncertain; and if it be calm and dark Weather, you had best come to an Anchor, especially when you have run so far out

as to bring the high Land of Bintang bearing S.S.W.

N. B. Off of the Bintang lies Pedro Blanko, or the White Rock: Keep it S.S.W. it will carry you clear of the Sand which lies off of Johoar Head: But do not borrow of the Sand, for it is steep from 23 to 10 Fa. and the next Cast saft a-ground; nor must you come within 14 Fa. of Pedro Blanko.

There is another Passage here, called the Old Strait of Sincapore, and the Directions are very particular for going that way: But as the other are esteemed the only Passages, and few Ships go now by the Old Straits; I think it needless to multiply the Directions.

Seas, from Pulo Tingay in the Bay of Siam, to boyda, and to Cochin China inclusive.

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Island. From Pulo Aure hither, you have from 18 to 20 Fa-all the way.

From this Island to the Bay of Siam, the Course is N.W. by N. The whole Bay is full of Pulses or Islands, but the Course is plain between them, as follows.

From Tymoon between Pulo Capes and Pulo Redang, in Lat. 4. 57. N.

The Redaug Islands are 5 in number.

From the Redang Islands keep the Main on board to Petany, in 16 to 17 Fa.

From Petany to Legore in 10 and 11 Fa. and thence to Pulo Claise in 14 to 15 Fa.

From Pulo Claife, which are 3 Islands, to Carnom.

From Carnon, or Tarnon Point, the Course is N. and N. by W. to the Bight of Juste, the dist is 32 miles: you may run without or within these Islands of Tarnon. From the innermost of them the Course lies right into the Peppy Road in the Bay of Siam.

Sailing Directions for the I

Here you may ride in 3 to 5 Fa. according as your Ship draws. From the Main, and towards the Soundings of Peppy, lies a flat Point of Land, with a Shoal stretching from it 12 to 13 miles into the Sea. From this Flat the Course stretches N. then N.W. to the River Moka Longa, where the Land falling in makes a deep Bight, and stretches out westerly towards the River of Siam.

This is the way to the River of Siam from the Sea. If you are bound from Siam, especially in the Months of June, July, and August, you must keep the W. Coast on board, endeavouring, if Wind and Weather permit, to get about the N. Point of the Bay, which is often very difficult, because of the Sea-breezes which blow in very strong there. But if you cannot do this till you reach the Point of Con, then go away boldly to Pulo Panjang, a flat Island S.E. where there is 30 Fa. Water.

Being past this Island, go on S.E. for Pulo Oby in 16 to 19 This Pulo Oby is the Centre of the Navigation of these Seas; for befides what has been made publick, all that would go to the River of Cambodia from Siam, Bantam, Batavia, or any particular way, must make Pulo Uhy, else they will have a bad Courfe, by reason of the strong S.W. Winds which

blow hard in those Months.

N. B. If you purpose to go into the River of Cambodia, be well flored with spare Anchors and Cables, and in particular with a thousand Fa. of Warp; for you must warp up against the Current at least 180 miles.

If you come forward for Pulo Vby, come into 16 Fa. especially if you come from the Westward; but if you come no nearer than 25 to 29 Fa. you will be to far to the Westward, that it will be difficult to find it, or to work up against the

Currents to reach it.

Pulo Tby lies about 40 Ls to the Westward 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 River or Opening of Cambodia; 'tis near 7 Ls about, and is higher Land than any of the Islands of Pulo Condore: You may wood and water on the S.E. fide of it, and anchor on the N. fide, and water there also. the E. fide alfo is a good Road for great Ships, very well fecur'd

ad g**oo**d Ground. To go from *Uby* to the River and City of *Cambodia*, your Course is thus: First bring Pulo Oby to bear N.W. by N. dist. about 6 Ls; there you will meet with a strong Current which fets to the S.S.E. in 18 Fa. Go on from thence towards the Bay of *Siam*; and having doubled the fouthermost Point in 15 to 16 Fa. you will begin to make the northermost, or Cambodia Point, bearing N.W. from you; and having come up with

it, your Course to the Land of Cambodia is due N. In this Course you must 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. steer Westward clear off that Sand, and keep on due N. and you will foon come into deeper Water, to 4 and 5 Fa. and then shoal to 4 Fa. again; when

it does so, expect soon to see the Opening into the first River

of the Country of Cambodia: but this is not the main River,

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by N. dift. rrent which owards the Point in 15 or Cambome up with N. In this about 5 Ls Sand, upon car off that into deeper gain; when : first River main River,

Timoan lies in 2 d. 50 m. N. Lat. there is Wood and Water, clear Ground, and good Anchoring almost every where round In the Fair Way to it from the S. you have 30 to 40 Fa. From this Mand to Pulo Condore is 127 Ls, the Course N.N.E. 4 E. and the Variation of the Needle between them is no less than 3 d. 30 m. westerly. Pulo Condore is in 8 d. 40 m. N. and you have a Depth of Water from 25 to 40 Fa. in the Fair Way during the whole Course between them, with some Variation of Depth, not much.

When your Depth abates to 20 Fa. then look out for the Island, and you will have a fair sight of it, at 7 Ls dist. bearing due N. from you: It makes in high broken craggy Land, with a high Rock at the N.E. Point, which makes like a Sail at first

fight.

Nine Ls W.N.W. from this Island lie two small Islands, a large L asunder: you may leave them on either hand, but not run between them; you have 14 Fa. within a mile of them either way. Pulo Condore lies at least 20 Ls from the River of Cambodia S. by E. It is not to properly one Island as a Cluster of Islands, tho all of them uninhabited but this. You have very good anchoring to the N. of the Island, 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 seen 10 to 12 Ls at Sea.

There is a very good Harbour on the S. end of this Island, made fo by the convenient Situation of another Island stretching along by the main Island N.W. and S.E. not above a mile The Entrance is at the N. part, where it is a mile broad; but at the S. end the Islands almost touch, leaving a most convenient Thorowfare for finall Boats, but with a deep Channel

and strong Current.

N.E. half E. from Condore lies Pulo Cicier de Mar, dist. 60 Ls, stretching S.W. and N.E. 2 Ls: 'Tis called so by the Portuguese, in opposition to another Island called Cicier de Terra, one lying towards the Land, and the other far off at Sea. There are many Rocks, little Islands, and much foul Ground about it on every fide; fo that our Seamen call them the $\mathcal{D}e$ vils Islands; and the best notice to be taken of them is, not to come in the way of them at all. Besides the sunk Rocks, Shoals, and other Dangers which lie about it, there are feveral little Islands in these Seas alike mischievous, which are to be named, only that they may be avoided.

1. 20 miles E. is a fmall Island, and E.N.E. from that another; the Ground between all rocky and foul. From the westermost of those two Islands there runs out a Ledge of Rocks sar

into the Offing.

2. 48 miles due S. from this Cicier de Mar lie 3 Islands, call'd Jane Hatch Witzbze's Islands, our Seamen call them the Witches Islands; they are so steep, 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 Water. More need not be faid to warn you not to come near them.

3. E. from these terrible Rocks, at 82 to 84 miles dist. lies a Riff called the Middleburgh Shoal, and 48 miles E. from that in Lat. 10 d. 55 m. lie more dangerous Rocks called Prinfen's

Klippen, all dangerous.

of Pulo Condore: You may wood and water on the S.E. fide of it, and anchor on the N. fide, and water there also. On the E. fide also is a good Road for great Ships, very well fecur'd

id good Ground.

To go from 'Uby to the River and City of Cambodia, your Course is thus: First bring Pulo Uby to bear N.W. by N. dist. about 6 Ls; there you will meet with a strong Current which fets to the S.S.E. in 18 Fa. Go on from thence towards the Bay of Siam; and having doubled the fouthermost Point in 15 to 16 Fa. you will begin to make the northermost, or Cambodid Point, bearing N.W. from you; and having come up with it, your Course to the Land of Cambodia is due N. In this Courfe you must 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, steer Westward clear off that Sand, and keep on due N. and you will foon come into deeper Water, to 4 and 5 Fa. and then shoul to 4 Fa. again; when it does fo, expect foon to fee the Opening into the first River of the Country of Cambodia: but this is not the main River, properly called the River of Cambodia, which you must take notice of, that you commit no millake.

This first River bears S.W. by W. and W.S.W. from the main River, dist. about 68 miles. Having then made this first River, steer away N.E. for about 8 Ls more, keeping in 3 and 4 Fa. and an Osling of about 2 Ls; for the Land stretches out here to the E. for 10 ½ Ls to Cambodia Point. Being come that length, you may run in fair with the Land into 3 Fa. you will not make the Land in 4 to 5 Fa. When you first make it, you

will fee 2 Points and an Island in the Mid-Channel.

In the Month of the first Opening lie 2 Shoals, so that there are 3 Channels: The eastermost Channel is the best, having 3 Fa. the other are shoal and dangerous. If you are bound up the River, go away to the W. Point, where there is deep Water, no less than 30 to 34 Fa. and leaving the Island on the Starboard-side, keep along under the W. Shore. Here it is that you'll want so much warping as was said before; for the City of Gaechodia is 180 miles up this River, yet the greatest Ships may go to the very Wall, or near it, with great Easte and Safety.

After you are come 144 miles up the Stream, you pais the Month of another large River coming into the first on your Larboard side; and then the main River lessens considerably: yet the Channel is deep 12 to 15 Fa. and the Stream not violent, and keeping still on the W. side of the Channel, you at

Lift come to an Anchor before the City.

A'. B. This is the fairest River for Navigation, the clearest and deepest Channel, and the mildest Stream that is in this part of the World; you go thus far up, viz. 180 miles, without meeting either Rock or Riss, Bank or Shoal, all the way: what are to be found, are on the E. side of the River quite out of your way, nor have you any Occafion to take notice of them.

Supposing you are not bound up the River Cambodia, but being at Pulo Timoan would go on N. to Pulo Condore, and

to to the Coast of China.

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of Cambodia, your ar N.W. by N. dift, ong Current which hence towards the nermost Point in 15 ermost, or Cambowing come up with is due N. In this ng: for about 5 Ls f hard Sand, upon ward clear off that n come into deeper 4 Fa. again; when into the first River not the main River, ich you must take

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Klippen, all dangerous.

4. N.N.W. from Cicier de Mar dist. 6 Ls, lie the Hoof van Hollands Shoals, a large Riss of Rocks, some under, some above Water: Come no nearer in your Course from the N. than 15 Fa. for none know how far the Rocks lie under Water on that side.

5. From Pulo Condore dist. 95 to 100 miles N.E. and 12 Ls from Crab Islands, in the Mouth of the River Cambodia, lies a Shoal, which was discover'd by a Dutch Flyboat, called the Elbow; it is not of importance for any Danger, there being 13 Fa. Water over it, but 'tis of use to know it for right judging your Distances.

6. Here are several other dangerous places on this Coast, which you have occasion to take notice of, such as Steen Clifapens Islands, Aberstoot Shoals, Pulo Cicier de Terra, Pulo To-

porshotie, and several others.

But to return to the Land, 10 Ls N. from the River of Cambodia, Lat. 10. 36. N. lies a Point of Land call'd Sinquell Janque; 'tis a high Cape that may be feen above 10 Ls at Sea, and all Ships which run between Aberfloot's Shoals and the Main make this Point: You may fail as near it as you please in 5 to 6 Fa. and anchor under the Point it self in northerly Winds, and get good fresh Water and Provisions there.

Here are fandy Downs and small Islands upon the Shore, stretching northward a great way; and then the Land pushes out N.E. and E. near 20 Miles, as far as Sattinburgh, about a

L from which lies Pulo Topershotic.

Two Ls and half off of this Island, and about 3 Ls from the Main, lies Abershoot's Shoals mention'd above; 'tis a Rist of Rocks under Water: Come no nearer without them than 1.4 to 15 Fa. and no nearer within than 1.1 to 12.

Steen Clippens Island is in a small Range; as you come towards it from the E. you will know you are near it, by your shoaling from 25 to 12 Fa. Then you are within Gun-shor of the Island, lying near the great Sind-Point of Thomps. You cannot pass between the Point and the Island, it being full of Shoals and Rocks, many of them above Water, and which at a distance 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 Steen Clippens Island lies the Pulo Cicier de Terra, dist. 20 Miles, and about 5 Mile off of Cape Cicier de Mar. This like all the rest, is surrounded with Rocks and Dangers, and sit for nothing but to be shun'd with the utmost care: Come not within a L of it on any side, nor within 8 or 9 Fa. Water. Between this and the Steen Clippen lies a great Bay call'd

Cicier Bay, stretching N.N.E. for 4 1/2 Ls to the River Boden. At the S.W. Point of this Bay, and about 5 Miles N. from the

Point, is a good Watering place.

Near Cape Cicier lies a dangerous Riff call'd Brede's Shoals, firetching out a great way to feaward: You must keep an Offing of at least 3 Ls from this Riff; if you come nearer, you will be among Rocks and toul Ground; but keep in the Offing, and you will go clear of all the above-nam'd Shoals and Rocks, and foul Islands.

Ten to 11 Ls N.E. from Cicier de Terra lies Padaran Bay, Lat. 11. 15. And farther on the fame Course lies Cape Avarillo de Falso: The Cape makes high of it self, but is more so by a great Rock standing on the Top of it, like a Centinel's Box on the Point of a Bastion: And about 16 Miles from this Cape lies Foul Bay, stretching N. by W. which deserves its Name, for in the very Mouth of it lies a dangerous soul Island, besides bad Ground at the Bottom.

To the N. of this Cape is Comerin Bay, which goes in N.W. by W. you will have 30 to 45 Fa. in it; yet 'tis rocky and shoal on the N.W. side. All the Land upon this Coast makes

double and hilly, and full of Bays, Inlets and Points.

N.N.E. from Cape Avarillo de Fulfo lies the S. Point of a deep Gulph call'd the Western Bay; you may know it by several white Spots on the Land, and by several Islands near it, one of which lying near the N. end of the Bay is call'd Rowden Islam; it makes bare and rocky, and is so: And just beyond it N. lies a whole Range of Bays, one beyond another: such as Pagoda Bay, St. John's, Phipps's, Schuytten's Bay, and several white Sands lying dry at low Water.

These Bays bring you to the great Bay of Chinchen, Lat. 13. 50. The Mouth of it is known by a great Rock in the middle rising above Water like a high-crown'd Hat, and two other Rocks, the southermost of which makes in three Heads, but when you come nearer, it appears to be all one Rock.

Next this is Buckhorn's Bay, and beyond that N.E. Pulo Canton, Lat. 15.40. and distance from the Coast of Chinan or Quinam 9 to 10 Miles. When it bears N.N.W. at 10 to 11 Ls dist. it makes low, and like a slat Chest or Cossin; but from the N.W. and at the dist. of 7 to 8 Ls, it makes in two Hills like two Islands.

You may sail between Cape Bethang on the Coast of Quinam, and Pulo Canton: The Shore of the Cape is pester'd with several Rocks, some of which are under Water; but keep a good

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Directions for the Eastern Seas.

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Coast of Quisis pester'd with out keep a good

and dangerous Rock under Water; among these may be reckoned the Islands call'd *Pulo Tyrai*, ten in Number, besides great Numbers which stretch near 40 Miles, and some of them lie off 10 Ls E, from the N.E. Point of Aynam.

N. and N. by W. from the Point of Aynam lie the Ladarone Islands, 9 or 10 in number; and the great Island Lantonne bearing with the Island Ladarong E.S.E. and W.N.W. distance 7 Ls from one another. Here the Tide of Flood fets N.E. by E. and the Ebb S.E. by E. About 4 Miles from the Ladarone Islands W. by S. there is good anchoring in 10 to 12 Fa. Then keep along N.W. by W. and N.W. as the Wind and Weather will admit, and till you come into 9Fa. You will then have the Caltle and Island of Maccao bearing N.W. half W. 4 and half to 5 Ls from you, and the Island call'd Jaggera N N.W. half W dift. 1 2 L, and just as far from the nearest of the Ladarone Islands. From hence you may weigh with the Flood, and ply up to windward, for the Entrance of the Bay of Maccao, which is the River that comes down from the great City of Canton, and you may go quite up to the City, if your Ship does not draw too much Water. In the Mouth of this Channel you ride very easy in 4 to 4 ; Fa. good Ground, the Town of Maccao bearing W.N.W.; W. from you, dift. 3 or 4 Miles. Tho the Ground is good here, yet with the Wind off Sea 'tis but a bad Road. Here 'tis usual for the European Ships to ride, till they can agree with the Viceroy of Canton's Officers for the Cultoms; nor must you stir till you have a Pals from the Mandarins to go up to the City; because if you do not make a fast Bargain with them, they will exact upon you, when you are gone up.

If you are bound farther N. keep on in the same Offing of 34 Fa. to Pedro Blanco Lat. 22. 5. being beyond the Coast of Canton: 'Tis a little Rock in the Sea, clean Ground all round it; so that you may pass within or without it, by Night or by Day, only keeping your Lead and Line in Hand: If you go without it, keep in 26 Fa. if within it, in 13 to 14, and

you are fafe.

Four Ls N.N.W. from *Pedro Elanco* lies a Point stretching out to seaward; and to the W. of it is *Harling's Bay*, where you may run in upon any Occasion, and find a good Road; but go in on the out side of a little Island, which you will see close to the Shore. There are some Rocks, but they are above Water; you may go on which side you think sit, and ride in 4 to 10 Fa good Ground. There are abundance of Islands here, as well as before, extended all along the Shore: The best Direction is to keep without them all, for we have no exact Account of them, or of the Channels within them.

Farther N. is Beais Bay, Branden Bay, and the Opening of a large River much frequented by the Chinese Jonks: But as the Europeans are not suffered to trade either in those Rivers or any of the Bays, they are not fully discovered; only that on Occasion our Ships ride in them at a distance, and sometimes put in for fresh Provisions, Water, &c. That you may know how to ride at a distance in Branden Bay, observe you go in

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two Islands.
You may sail between Cape Bethang on the Coast of Quinam, and Pulo Canton: The Shore of the Cape is pester'd with several Rocks, some of which are under Water; but keep a good Osling in 30 to 34 Fa. and you will find clean Ground, only come not near the Island. Opposite to Pulo Canton comes in a large River, whose Opening is very wide, and a fair Channel having 5 to 6 Fa. far in, but no European Ships trade in it. Upon the S. Point of this River lies the Mountain Salenbuigh, which capes so high, that it is seen as you come from the S. above 40 Miles.

Twenty Ls distance from Pulo Canton, and the same distance from Quinam, lies Pulo Componella Lat. 16. 20. the Course between is N.N.W. and S.S.E. There is good anchoring in several Places on the W. side. On the N.W. lie three other small Islands, whereof one is very high; and 3 Ls from it S.E. by E. lies another Island call'd Componella Falso; from this there runs out a Rist of Rocks S.E. sar into the Sea; and about the sirst Island are abundance of Rocks and little Islands, so that

you were best not to come near these Islands at all.

Putting off here from the Coast of Quinam into Lat. 18 deg. and into 80 to 90 Fa. you will get sight of the Land of Aynam: This Land is found by the most exact Observation to thrust out its eastermost Point at least 40 Miles more to the northward than any of our Charts describe it; and the like Mistake is found in leveral other Places on this Coast.

Sailing hence to the northward, you find nothing remarkable but an Island call'd *Pulo Tinhosa*: On the W. side of it there is good anchoring in a sandy Bay under a very high Hill. When this Island bears from you N.W. half N. about 7 Ls, in 6 Fa. Water, you will see three extraordinary high Hills upon the Main, the westermost of which has two Hummocks upon it, and the eastermost three. Off of those Hills lies another Island call'd *Pulo Tinhosa Falso*, with several little Islands about it, all foul and dangerous.

N. B. At 6 to 7 Ls off from this Coast you have 50 to 60 Fa.

at 10 to 12 Ls Offing you have 70 to 80 Fa.

N. B. From Tinhofa Falfo towards the E. Point of Aynam, as also all the way between the two Tinhofa's, and along the S.E. side of Aynam, the Coast is full of little Islands,

beyond another: Schuytten's Bay,

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Four 1.5 N.N.W. from Pedro Blanco lies a Point stretching out to seaward; and to the W. of it is Harling's Bay, where you may run in upon any Occasion, and find a good Road; but go in on the out side of a little Island, which you will see close to the Shore. There are some Rocks, but they are above Water; you may go on which side you think sit, and ride in 4 to 10 Fa good Ground. There are abundance of Islands here, as well as before, extended all along the Shore: The best Direction is to keep without them all, for we have no exact Account of them, or of the Channels within them.

Farther N. is Beais Bay, Branden Bay, and the Opening of a large River much frequented by the Chinese Jonks: But as the Europeans are not suffered to trade either in those Rivers or any of the Bays, they are not fully discovered; only that on Occasion our Ships ride in them at a distance, and sometimes put in for fresh Provisions, Water, &c. That you may know how to ride at a distance in Branden Bay, observe you go in N. and ride in 6 to 10 Fa there is good soft Ground, leaving two Islands which he W. by S. and E. by N. from you on the Starboard-side.

Likewife at Cranmeir Bay, Pissan de Sibare Bay, and two more on the same Coast, there is good riding in them all, in 8 to 10 Fa. but you had not best come too near any of their Ports. You may run from one of these Bays to another all the way within the Islands, the whole Shore being covered with Islands, and indented with Bays, whose Names and Soundings as they have not been critically survey'd, and are of small use in our European Navigation, need no mention here.

It is enough to add here, that the Coast trends all along N.E. and N.E. by N. to Pitto, or the Point there which we call the Cape of Good Hope, tho I know no Reason for giving it that Name. There is a good Bay on the W. side of the Cape, secure from northerly Winds, with 6 to 7 Fa. Water and to the northward of the Cape another for southerly Winds. This Cape lies about 6 Ls from Wirenger's Bay; and between Wirenger's Bay and Amoy is 40 Ls on the same Course, N.E. and N.E. by N.

The going into Amoy is something difficult; but as there is an English Factory there, you may upon proper Signals have

an English Pilot to carry you up.

N. B. Since the English have settled a Correspondence at the great City of Canton, there are Pilots as well English as Portuguese always ready at Maccao to carry you up to it.

N. B. A S. Moon makes full Sea at Amoy.

N. B. It flows 23 Foot right up and down at Amoy on Spring Tides.

Of the Rocks call'd the Praters.

In the Lat. 21. 11. N. and Longit. E. from Batavia 9. 30. lies a Cluster of very dangerous Rocks call'd the Praters; they lie under Water, and are only to be discover'd by the breaking of the Sea upon them, and smooth Spots of Water like Glass

Sailing Directions for the Islan

made by the Eddies of the Breakers, and inclos'd by them. Our Pilots say it is a terrible Place but to behold at a distance; it requires therefore your utmost care to avoid them, and the more, because in many of our Pilot Books they are mis-placed, and laid down too far southerly a great way: The most southerly part of them being placed in Lat. 20. 30. whereas by the most exact Observations they really lie in 21. 11. as is faid above, stretching from thence northward.

There have been found Masts standing deep in the Sea, and Anchors have been taken up from among the very Rocks; to that it may be suppos'd several Ships have been lost 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 Directions for the Coast of China, from Amoy to the English Factory at Chusan, and especially within the Islands.

OU may turn it out from Amoy between the Isle of Liston and Quemoy, till the Chapel Island call'd the Hole in the Wall bears S.W. by W. 4 Ls from you: But take great care of the westermost Point of Quemoy, for there runs a Ledge of Rocks from it S.W. a great way into the Sea, and very dangerous they are.

From hence there is a Course to the N. quite to Chusan all the way within the Islands; which is not only extremely difficult, but also unfit for great Ships, such as the Europeans

ulually trade this way with.

But for great Ships, the Direction is very brief, namely, to put out to Sea directly from Quemoy E. by N. Keeping that Course

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The End of the Navigation for the Continent of Asia, so

Sailing Directions for the Islands of India, from Ceylo Streights of Sunda, and Bailly, to the S

About Gun-shot from the Shore before the River,

HE northermost part of the Island of Ceylon, next to the Shoals of the Heil, is the Haven and Port of Manara; the S. end of Manara lies in 7.58. N. Lar. 'tis known by the little Clumps of Cocoa Trees growing on the 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

runs a finall Riff, stretching N.W. and S.E. between Manara and Arippe.

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: N end of it and the River bear W.S.W. and E.N.E. 4 1/2 Ls between; 'tis all a stony and rocky Riff, but there are three several Paffages thro' it, tho very dangerous, because with a southerly Wind the Sea breaks over them all; and besides there is no more than 12 to 14 Foot Water in them.

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till they are clear of the Rocks call'd the Tantees, and leaving them. tance; the Chapel Island on the W. fide, distance 3 Ls: Then go away nd the E.N.E. in order to go clear of the Piscadors and the Coral Grounds, which lie N.N.E. from them; steering as if bound placed, directly to the Island of Formofa: But having taken a sufficient st loueas by Offing Lat. 24. 30. Then go away N.N.E. and N. by E. keep-. as is ing still without all, and hold that Course, till you come to Lat. 29, varying half a Point to the N. as by the Charts you fee the Coast of China falls off westerly. Being come to Lat. a, and 29. 50. which is near the full height of the Quefan Islands: ks; lo Then you have nothing to do but to stand right in with the re. It or's Di-

Coast, till you make the Islands or Rocks call'd Pathahecocks: Then steer away N.N.W. leaving these Islands to seaward N E. by E. till you make the Quefan Islands, from whence the beit Passage into Chusan is mark'd out by our Pilots. Passage in, having faid before that Pilots are always to be had to carry you up to the Port, I need give no farther Description. You may come to an anchor on the N.W. fide of the great Island of Quefan, and may perhaps find Pilots there.

But if you do not think fit to take this Passage, but to keep up N. to the Island of Powto, or the Worshipping Island, then keep on due N. leaving the Pathahecocks to the Larboard, and fland in for Powto Harbour, where you have good anchoring in 7 to 12 Fa. and there you may fend your Boat to Chufan for a Pilot.

Also at Chusan you may have Pilots to carry you to Lympo, or Nympo, whether with your own Ships, if you get leave of the Mandarins to trade thither, or with hired Junks, at Course which you take upon Freight of the Chineses.

Continent of Asia, so far as is known to the Europeans.

ia, from Ceylon, inclusive to Java, Borneo, and the Bailly, to the Spice Islands exclusive.

From Ceyloan the Course lies S. by W. to Negumbo, the dist. 10 Ls, and to Columbo 6 Ls more on the same Course. These are both Dutch Factories: and as the Coast is very difficult, the Factory keeps Pilots always ready to bring Ships in that appear in the Offing.

From hence to Caliture and the Island Barberain is 15 4 Ls, the Course due S. and S. by E. Most of this Course is in an Offing of 18 Fa. and good fandy Shoalings to the Shore, with leveral good Bays and Roads on any Occasion, except in the S. Monfous. 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. side of the Entrance, about 2 Miles from the Shore, there you will have 10 to 12 Fa. Water. At Caliture there is a Fort, which stands on a Hummock 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 those two Hummocks, and If S the sun tight in upon it, till you come into 4 Fa. but be lure not

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growing on the 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-shot from the Shore before the River, runs a finall Riff, stretching N.W. and S.E. between Manara and Arippe.

The S end of the Riff and Manara River bear S.W. by S. half S and N.F. by N. half N. 4 Ls from one another: The N end of it and the River bear W.S.W. and E.N.E. 4 1/2 Ls between; tis all a stony and rocky Riff, but there are three several Passages thro' it, tho very dangerous, because with a southerly Wind the Sea breaks over them all; and besides there is no

more than 12 to 14 Foot Water in them.

From Manara it is 4 Ls to Arippe, the Course S.W. half S. the Land lying all the way rounding in to a Bight: There is a fmall Village, with a Portugue se Church just by the Town: N.W. by W. from that Church lies a Rock about 2 Miles from the Shore; finall Veffels may go between that Rock and the Shore, in 8 ro 10 Foot Water, but in the Fair Way there is 14 to 16 Foot. Sailing from Manara along Shore, you must be careful not to come into less than 24 For Warr, either to landward or feaward.

The Course differs exceedingly here, as you come from the fouthward or northward; but there are Pilots at Arippe to

guide you.

From Arippe I may suppose you are bound round the W. fide of Ceylon; your first Course then is to the Island of Car.dien or Ceradis SW. by W. The fouthermost Point lies in 8. 20. The Sea is fo clear here, that you fee the Bottom very plain in 20 Fa. to you may look for funk Rocks by the naked It you come from the westward, you must keep the Lead going, for the Soundings are very uneven; fometimes you will have 15 Fa, then no Ground, then 8 to 9 Fa. yet when you come within 3 Ls and 3 of the Shore, you will find good gradual Shoalings. At the S. end at this Island is a Bay about 2 Ls from the River Calapetene: The Course here is S.W and N.E. 44 Ls in length. Above this Island lies a Riff of Rocks about 2 Miles from the Shore, you may fee the Breach of the Sea upon them: There is no fafe anchoring about the whole Island, the best is to " a castward under the Cocoa Grove, but there you will have no good Shelter for westerly Winds, nor good Ground to anchor in neither.

From Calapetene to the Main, including the Point of Chi-In or Ceyloan is 5 Ls, S.S.W. and N N E. From the S. fide of the Bay of Navarary begins a Spit of Coral Rock, running along Shore till within a !. of Chilon, dist. from the Shore

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Bailly, to the Spice Islands exclusive.

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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 it and the Shore in 4 Fa. for it lies almost 2 Miles off. On the off side of the Rock you have 5 or 6 Fa. good Ground; but if you go off to 15 Fa. tis somewhat foul; and at 20 Fa. 'tis extreme foul, with Rocks of Coral.

Two Miles S. of the Island Barberain is the River Benetto, on the S. side whereof is a sinall Fort upon a Hill, under which you have a good Road in 15 Fa. 4 Ls off Shore you have 28 to 30 Fa. and a little farther S. at the same distance no Bottom. From Barberain to Ragamme is 11 Ls, the Course S.E. Between them come in several small Rivers, as Amlamgod: in particular, which is known by a Garden of Cocoa Trees; the River is not navigable; you cannot well come nearer on this Coast than 20 Fa. The Shoalings on the Shore being very uneven and dangerous. Ragarume is a Point running far into the Sea, and cover'd with Clusters of Cocoa Trees; but the Ground is all Rocks, and foul on both fides of it.

From Ragamme to the Bay of Galles the Course is S.E. by E. to the Port de Galle, and then E. by S. E. half S. and S.E. dist. 14 Ls. Port de Calle is the sirst considerable Place belonging to the Dutch on this Shore; they have a strong 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 their Pilots, fo there needs no Description, all you have to do is to make a Signal.

If you would not go in here, but defire to go into the Red Tay, keep along Shore in 12 to 14 Fa. till pals'd the steep Red

Point which gives Name to the Bay; then you'll fee a Rifflying along Shore: Keep the fame Depth along by the Riff, till you fee a finall Island on the W. fide of the Bay, and after that a Rock above Water: Bring them together bearing N.N.W. from you; then luff up N. or N. by W. and fo you may fail within a Stone's cast of the Rock: Then let fall your Anchor within $\frac{1}{2}$ and $\frac{1}{2}$ Fa. Be very punchual in these Notices, then you may run on into the Mature, a River in the Mouth of which are two or three Rocks that thwart the Channel, and one without the Mouth of the River: That which thwarts the Channel is the largest. If you would come to an anchor before this River, you must run no nearer in than 12 Fa. till the Island bears N. by E. and N.N.E. from you; you may anchor within the Riff or Ledge in 4 to 5 Fa.

Here are several Bays, but they are all empty of Ships, be-

ing half out of Bufincis.

From the Bay of Galles to Mao the Course is all 1. In for 14 Ls. On the first of the Coast your Course is to 1. In post in 15 Fa. because particularly in the usual Osting from Dyckwood hes a Ledge of Rocks, not above 2 Miles off Shore, and a Rist of Sand lies out from the Shore about Musketsshot; but after you are past that Rist, you may run along Shore to the next Harbour, in 12 to 14 Fa. within Cannon-shot of the Shore. A little be fore you come to Mao, you begin to find toul Ground, and you may keep off in 22 to 25 Fa.

From Mao to the Elophant is 16 Miles; the Coast turns half about, and your Course which before was E. by N. is now N.E. S. half E. from the Elophant lie the great Abaxos or Shoals, they are certain Rocks, about 3 or 4 Ls off Shore, about which there is a very great Breach of the Sea; they lie for about a Cannon-shot over every way: On the Ossaind the Main you may fail thro in 8 to 12 Fa. but on both sides you should be careful not to come within 8 to 10 Fa. of the Shore, till you are past the height of these Rocks.

N.B. From Point Dondra, if you would go without the Abins, you must steer N.E. after you come to 20 Fa.

and that will carry you clear.

From the Elephant to Arregamme is 50 miles, the Course chiefly N.E. and N. by E. Between the Elephant and Point Julius there lie two Riss, one in with the Shore, and the other two miles off: upon either of them is not above 3 Foot Water; this is enough to direct any one to keep a good Offing: The dist, is ordinarily in 16 to 18 Fa. and be sure you come no rearer; and this should make you take care to avoid the Great Abonos. There are also other Shoals of Rocks, called the Lattle Abanos; between them you may fail in 25 to 40 Fa. afterwards you shoot away N.N.E. in an Offing of about 4 miles, and in 20 to 22 Fa. the Ground Sand, mixt with Coral.

From Arregamme to the great Bay of Crankanella is 121 miles, the Course N.1 y W. and N.W. by N. On this Coast lies a great Rist of Rocks 2 Ls off Shore, the Ground between

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n'll see a Riss come into this Bay on the S. side of it, which the they are not by the Riss, of any long Course, yet the Channels are so deep, that you any and after may run a good Ship in, without either Anchor or Cable, and

lay her a-ground fafe in the foft Ouze.

From this Bay to Passake is 12 Ls, the Course NW. with a moderate Offing of about 4 miles; at which dift. from the Shore you have about 16 to 20 Fa. fort Ouze, all the way till you come to Molewale, that is Pajjake: here you have a broad Shoal lies along Shore for 3 Ls, and runs off into the Sea almost 4 Ls; it is true, the outer part deepens off, but they that fail this way with great Ships should not come nearer that Sand than in 6 to 7 Fa. for even then they are upon the Sand. and would find it shoal upon them apace if they founded it: and if you come from the fouthward, with the utual Offing of 8 miles, (if you hold there) you will certainly be a-ground upon it: You must stand off from Crankanelle, and come on in an Offing of 4 Ls at least; then you will have 8 to 9 Fa. Coral Ground, and you will know when you are just past the Rist, for then at 9 Fa. you will bring up clean Sand, with now and then fome finall Coral Stones.

If you are bound to Point de Pedra, then as foon as you are past the Riff, luff up round aboard it, to run in for the Shore to the northward of it; then you will have 7 to 8 Fa. within half Gunshot of the Shore; but you must edge off again when you come near Point de Pedra, for there are some Shoals

that way.

From Molewale, or Molle Valle, to Point de Pedra, is 14 Ls, the Course the same as before; your Fair Way is along Shore as above, fomething more than half Gunshot, not above whole Gunthot; not nearer, because of a long Shoal; not faither off, because of a funk Rock, on which there is but 9 Foot Water, and which must be left to Sea board. It is a most dangerous place, for besides the Rock it felf, it is surrounded with a very great Flat of Sand; it lies near 10 miles off in the Sea, E, and E, by N, from the Pitch of the Yount de Pedra: you must by no means come within 3 \frac{1}{4} Fa. of it; and if you are coming from the fouthward, and cannot fetch in upon the Shore, about the Shoal of Molewale, as above, the Winds perhaps blowing westerly, and so carrying you out, you must then stand away N.E. from the Shoal, till you come in 9 to 10 Fa. and then steering N. keep an Offing of at least 4 to 5 Ls, and not nearer than 7 Fa. till Point de Peara 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 Point, and that it bears S, and S. by E. from you 14 miles, then you may bear down upon it into 4 and a half Fa, where you may 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 Houles upon it; you may make a Signal for a *Dutch* Pilot.

W. and by S. and W.S.W. from Point de Pedra, lies Hammon Heil, or Laurodien off of the Heil of Mannare, the dift.

N. F. From Point Donard, It you would go without the Mornos, you must steer N.E. after you come to 20 Fa.

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From Arregamme to the great Bay of Crankanella is 121 miles, the Courfe N.by W. and N.W. by N. On this Coast lies a great Riff of Rocks 2 Ls off Shore, the Ground between very foul, and almost all Rocks: To avoid this otherwise inevitable Danger, if you are in a great Ship, you must keep at least an Ossing of 8 miles. nay 3 Ls is little enough, especially it you have the Wind off Sea. The Mark for this dangerous place is a high Hill up within the Country to the fourthward, but which is Icen far at Sea, called the Fryars 1100d; bring this Hood S.W. by W. from you, and then you are just abreast of the Rocks: if then you would fland in for the Shore, you may, and anchor in 7 la. a mile from the Shore, in the Mouth of the River Batacally. The Bay of Trinkamally, or Crank melle (tor it is the tame place) goes in W. at least 2 Ls in length. Here are leveral very good Havens, in which the largest Ships may ride secure in all Winds. There are 3 Rivers

Sailing Directions from Priaman on the Island and thro' those Streights to Ba

EING in the Road of Priaman, to which you have already had Directions, your Courie from thence towards the Streights of Sunda is S. by E. holding to till you come in 2 d. 30 m. S. Lat. then S.E. to 3 d.

10 m. then S.E. by S. to 5 d.

In 4 d. 10 in. there is an Island lies off, near the Main called Sea Coast Island, where you may ride in 7 Fa. Opposite to this Island in 4 d. 10 m. is the English Factory of Bencoulin, or Bencola; it is dist. from the Streights of Sunda 50 Ls, without any place of note between, a bold clean Coast, and no Dangers but what are plain to be feen.

To anchor in the Road of Bencoulin, bring Sea-Coast Island to bear with that Port S.E. and N.W. and the Union Flag-staff on the Yark Fort E.by N. 4 E. dift. 2 Ls, and Sillabar Hill N.E. half E. dift. 10 miles; then you are in the best of the Road, and in 10 Fa.

N. by E. half E. from you is a Town called Single de Moon; there is a Cape by it, which bears from you as you ride E. half

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When you are within the Point, and that it bears S, and S. by E. from you 14 miles, then you may bear down upon it into 4 and a half Fa. where you may 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 some Houses upon it; you may

make a Signal for a Dutch Pilot.

W. and by S. and W.S.W. from Point de Pedra, lies Hammon Heil, or Lanrodien off of the Heil of Mannare, the dift. 8 Ls; but in your Courfe 'tis more, because you must stand off from the Land to avoid a Shoal, on which there is but 3 Fa. When you are far enough off, you will fee the Fort of the Heil, bring it S.E. from you, and fleer with it to into 4 and a half Fa. there you may ride very fafe, and in good Ground.

From the Heil there are divers Channels within the Islands to Jetrapatam, Pallanden, and Mannare, and feveral other places: the Course is various, being a Circle within the great Bay; the Passages are indeed much frequented, chiesly by the Dutch, but not by great Ships: And as all these Islands are in the Possession of the Dutch Factory, there are Pilots to be had from place to place, fo that the particular Descriptions may be omitted without Injury to the Sailor.

on the Island of Sumatra, to the Streights of Sunda, Streights to Bantam on the Isle of Java.

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Sca-Coast Island Jnion Flag-staff d Sillabar Hill the best of the

ingle de Moon; you ride E. half S. the dift, is about 3 Ls. There is a dangerous Riff of Rocks under Water, flooting out from that Cape strait into the Sea, towards Pulo Rongin, near a mile. Between Bencoulin and Pulo Rougiu is 45 Ls, the Course N.W. by N.

There is likewife a dangerous Shoal called Sillabar, lying W.S.W. from the little Sea-Coast Island: the Sea breaks violently upon the Shoal: the high Land is also called by the same Name: the Depth along Shore is 54 Fa. but by the Island only

From hence your Course is E.S.E. till you come almost to the Point of the Streights of Sunda; entring the Streights, you may see both Mains at once, viz. Sumatra on your Larboard, and Java on your Starboard Bow: Java is high within the Land, but low by the Sea Shore; Sumatra very uneven: The Current in the Passage or Streight sets 12 hours one way, and 12 the other, and fometimes fo strong, that you cannot stem it with a fresh 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 pleafe. There is an Island off of Sumatra, which properly forms a Streight; if you would anchor on that fide, go nearer the Main than the Island, because of a Rock which lies midway between: but 'tis either above Water, or so near the Water's Edge, that the Sea discovers 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 lie thro' N.E. and S.W. for when you are about Palimbam Point, which lies S.E. by S. of the Headland of Sumatra, and which makes the East entrance of the Streights, your Corle is E.S.E. and S.E. by E. till you make the Pulo Panjang, dist. from the said Point of Sumatra 9 to 10 Ls. you may go on either side of that Island, but come no nearer than 6 Fa. In passing the Island you will see a round Hill on the main Land of Java, bearing S.S.W. from you; that Hill shews it self directly over the City of Bantam: keep the Hill in the same Point, and run right in, you will come to the 5 Islands called Pulo Hemas, there you may ride in 4 Fa. and what more you please, ouzy Ground.

N. B. The Tide flows 5 Fa. right up and down in the Road off of Bantam.

Supposing you are coming up the W. or S.W. Coast of Java towards the Streights of Sunda, intending to enter the Passage, and are fallen within the great Bay of the said western Coast, from the southward; you will then find two Islands in your Course to the N. sirst the Island called Trouvers, which bears N.W. from the said Bay, dist. from the Red Point on the S. side of the said Bay 44 Ls.

The Fair Way from this Bay lies under Shore, from the fecond Point 24 Ls, to the faid Island Trouvers: here you have a clean Coast, and from 20 to 30 Fa. all the way, your Course W.N.W. From Trouvers to Clapps Island the dist. is 10 Ls, the Course W. by S. Bring Clapps Island to bear from you W.S.W. at about 4 Ls dist. then steer for Java Head, and the S.W. Point of the Streight of Sunda, your Course will then be N. easterly.

When you are a-breast of the Head, you will open the N. Point, and over that Point you will see Princes Island trending S.W. towards you, into the Sea. The distance from the S.W. Point of the Streight, which makes the N.W. Point of Java and the S. Point of Princes Island, is 12 miles, the Course in and about the North Point, which is called the First Point, lies E. by N.

Keep close aboard the N. Point's opening the Streights, where you will have 17 to 22 Fa. Coral Ground. Being about the Point, you open a deep Bay, which goes away S.E. In this Passage between the Island and the Second Point, which is the W. Point of Welcome Bay, you have 25 to 30 Fa. and in the Ossing no Bottom.

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But if you have occasion to fail along the N. and E. Coast of Java, you may remember to keep a large Osling, all that side of Java being slat off for a good way from the Shore.

In failing thro' the Streights of Banca, however now out of use, it may be necessary to take this Note. That being enter'd the Streights, and in sight of Lucapara on the Island of Banca, you need no longer oblige your self to this or that Course, or to any failing Instructions, but mind your Lead, the Depth and the Grounds, and them only; and this will give you the Distances, as well from the Shore of Sumatra as from that of Banca; the reason is because of the violent Current. When you have the Isle of Banca E.N.E. off, then you will see a small Pico in the middle, and have the shoalest Water, being $4\frac{1}{4}$ Fa. only; if Banca bears S.E. then keep to the Coast of Sumatra in 5 to 6 Fa.

Pray note, That you ought not to pass those Streights in the Night, because of the sudden and uncertain Alteration of the Currents by the Freshes, which at certain times of the Moon, cause them to change their Seasons, so that they keep no regular Course; by which means if you lose the Soundings on the Sumatra side, you may be driven upon the Shore of Banca before you are aware, and notwithstanding your utmost Endeavour to avoid it; particularly the Stream of the River Pallambin comes down on those Occasions with such a surprising 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 must you depend upon your Charts for your Course to the Island Linquin, which is laid down by them to stand so far westerly, that in a dark Night if you work by your Book, you will certainly go on Shore; the furest way is, when you are past Banca, to heave the Lead constantly, keeping off in 12 Fa. till you come to Pulo Parra, and from thence in 18 Fa. (not an Inch deeper) to Linguin; that Depth will carry you within 5 Ls of Linquin, and there you will find furious Currents again; but still keep your Depth of Water for your Rule, and you caunot mistake: for the Shoalings of the Coast are always the same: in 18 Fa. you are certain to be in an equal Offing. It must be the same from Linquin to Pulo Panjang, only that there you may deepen your Course from 18 to 20 Fa. for if the Current should set you into the Streights, it may be of bad Consequence. Also the other way there is Danger of running upon a Riff of Sand, which lies to the S.E. of Point Panjang; and if you keep to your Depth, you will avoid that Mischief also.

Sailing Directions for the South Part of Java, and the Streights of Bally, being the direct Passage out of the Great Indian Ocean, to the Islands of Celebes, the Maduras, and the Moluccoes.

The S.E. Part of the Isle of Java, and the N. Point and N.W. side of the Isle of Bally, make the Streights of Bally, in 18 d. 6 m. S. Lat. The S.E. Point of Java runs out into Lat. 8-d. 46 m. and the narrow of the Streights is in 7 d.

W.N.W. From Trouvers to Clapps Island the dist. is 10 Ls, the Course W. by S. Bring Clapps Island to bear from you W.S.W. at about 4 Ls dist. then steer for Java Hvad, and the S.W. Point of the Streight of Sunda, your Course will then be N. casterly.

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When you are a breast of the Head, you will open the N. Point, and over that Point you will see Princes Island trending S.W. towards you, into the Sea. The distance from the S.W. Point of the Streight, which makes the N.W. Point of Java and the S. Point of Princes Island, is 12 miles, the Course in and about the North Point, which is called the First Point, lies E. by N.

Keep close aboard the N. Point's opening the Streights, where you will have 17 to 22 Fa. Coral Ground. Being about the Point, you open a deep Bay which goes away S.E. In this Passage between the Island and the Second Point, which is the W. Point of Welcome Bay, you have 25 to 30 Fa. and in the Offing no Bottom.

When you pass this Streight, the first Port on the E. side of Java is Bantam, described as above. From Bantam there is as usual Passage northward, leaving the E. part of the Streights of Sunda on the Larboard side, and passing towards the Coast of Malacca and China by the Streights of Banca: But since the English Factory have remov'd from Bantam, and the Pepper Ships go no farther than to Bencoulin and the Coast of Sumatra, this Course is not so much in use by them; the English Ships chusing to sail by the N. Point of Sumatra, the Streights of Malacca, and of Sincapore; or if they do pass by Banca, it is no more from Java, but about by the S. end of the Island of Sumatra.

Batavia lies from Bantam E. by S. being the greatest Road for Shipping in all the Indies; it is dist. from the Streights of Sunda 25 Ls, from Pulo Panjang in the Entrance to the Bay off of Bantam 20 Ls. There are 14 or 15 Islands lie in the Bay off of the Port of Batavia; which Islands make the Riding there to tase, the Ground also being very good, that they are as to many Harbours: Those Islands are indeed of little other rife, except soi producing some Fruits, which they supply the City with as Provisions. Batavia lies in Lat. 5 d. 56 m. S.

The Haven of *Batavia* goes in due S. in the bottom of the Bay, and between 2 Heads, and is capable of receiving very good Ships; but as you have Pilots always to carry you in, if you have first obtained leave of the *Dutch* Governor to go into the Poir, which is not easily granted, there is no need to tay more of it.

Beyond Batavia E. there is nothing of note, as to Navigation on the Isle of Java to the Streights of Bally, which are described by themselves. From this Coast, as is said above, they go away N. to the Streights of Banca, in order to pass northward to the Seas of China, and to the Coasts of Malacca, Syam, Cambodia, Cochin China, and to China and Japan.

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The S.E. Part of the Isle of Java, and the N. Point and N.W. side of the Isle of Bally, make the Streights of Bally, in 18 d. 6 m. S. Lat. The S.E. Point of Java runs out into Lat. 8 d. 46 m. and the narrow of the Streights is in 7 d. 58 m.

This is the Streight which the Dutch Ships pass when they sail for the Spice Islands, without passing the Streights of Sunda, or stopping at Batavia: in which Course the first Land they make is the S.W. Shores of Java; from whence they steer E. by S. to the S.E. of that Island, which opens the Streight of Bally. That Streight goes in W. as far as the E. Point of the Bay of Ballambouang: then the Course changing, you go from the said E. Point over to the Shore of the Island of Bally N. by W. and then back again over the Passage of the Streight to the E. Shore of the Island of Java. In these Crossings of the Channel to and from the Cape Gounonkin, and back again to the Isle of Bally, you have from 20 to 36 Fa. but in the Mouth of the narrow Channel, crossing to the E. Coass of Java, from 10 Fa. to 5 and 5½, 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 Course going away E. to avoid a soul Island called Pulo Snaan which lies off of Java, under the Lec of Ballambouang Hills, a Range of high Mountains, which lie parallel with the Streights for 7 or 8 Ls on

the Yava fide.

From these Streights the Course is N. by E. to the E. end of the Madura Islands, and to the great Island of Borneo; or N.E. to the Celebes, or due E. to Amboyna, Banda, and the

other Spice Islands, called the Molnecoes.

But as those Parts are peculiar to the Commerce of the Dutch, and that no Ships (or very few) trade in those Seas but themselves, we have no Survey of them by any English Mariners, or any foreign Survey translated into the English Tongue: so the Author of this Work cannot be accountable for omitting them.

Sailing Directions for the Coast of Asia in the Point of Natolia, to Damiata at the Mon of Agypt exclusive; with the Asian Island



HE Asian fide of the Hellespont was necessarily in-The cluded in our Directions for failing into and out of the Gulph of Constantinople.

The first Land of the Leffer Asia, or Natolia, S. from Cape Bobabora already described, is Fogia

Veech, or Veccia, a little more than W.S.W. from the E.Point of the Island of Metelin, diff. from the said E. Point 4 Ls: the Coast between is fair and clean, and Ships pass without any Difficulty, as has been faid, in 7 to 8 Fa. to and from the Cape, and to to Cape Janefari.

Directly W. from the same E. Point of the Island, and dist. but 2 Ls lies a very good Haven called Porto Gero; it stands fair on the N fide of the Channel between Metelin and the Main, and lies diffant from the Channel between Scio and Ar-

gentiro 15 Ls N.E. by N.

The Entrance into this Haven is exceeding narrow; and the S. Point reaching out beyond the N. Point, it is as it were closed, so that you hardly perceive there is a Haven, till you are entred the Channel. 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.

Nine Ls S. by W. from this Haven lies Cape Barbanola, being the S. Point of the Gulph of Smyrna; and 12 Ls E.S.E. lies the Point of Fogia Nova, E.N.E. from Cape Barbanole, on the S. fide of a large Bay, called antiently the Gulph of Ælia,

or Flaitma.

The Island of Metelin has been described: the Coast affords one extraordinary Haven, which lies on the E. fide, dift. from Fogia Veccia; Ls. On the W. fide of the Point, on which the Cattle of Metelin stands, is a very good Road for S.E. E.N.E. and N.E. Winds; and to the northward of the fame Castle, diff. about 2 Gunshot from it, lies a little Island close to the main Island leaving just room between them for Ships to ride, This Road fecures you from S.E. S.W. and as in a Harbour. N.W. Winds. Also a little to the Westward of that little Island, you may lie shelter'd from all Winds, except N.W. N. and N.E.

To fail between Metelin and the Main, this only Direction is necessary, viz. not to keep in the Mid-Channel, but to either fide which you pleafe; for in the middle lie feveral dangerous Rocks under Water; but keep on either side, till the Castle Molivo upon the Island come abreast, then you are sure you are past the Rocks, and may go boldly in the Mid-Channel again.

There is another good Haven at the W. end of Metelin, called Porto Seguri, called fo from Cape Seguri just by it: There is an Island just before it with some Rocks . The ob

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end of Metelin, guri just by it: Winds, and there Ships ride, when the Winds for going up the Gulph to Smyrna are out of the way: You may always know the Town and the Roadallo, by a Row of Windmills 6 or 7 together, on the Hills behind it.

The Road is behind some Islands which lie to the N. of the City; and those Islands serve to break off the Sea, and make the Riding easy, as well as safe.

S.W. from the Mouth of the Gulph of Smyrna lies the Island of Scio; at the W. end of it stand several Light-houses, 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 Island is good; you may run boldly thro' the Channel on any side.

Patling the Point, you have the City in view; fo you may go directly upon it without a Pilor, and anchor before it in 15 to 20 Fa. off of the Haven's Mouth. The City lies under a great Hill close to the Sea Shore: Right before the City is a Mole where Ships of any Burden may ride as in a Millpond; the best of the Road is to the northward of the City, in 20 to 25 Fa. about a mile from the Shore: The Marks for anchoring in that Road are very plain, so that no Pilot is wanted for that Part. Bring the middle of the Castle to bear W.S.W. with that one Mark you may anchor where you please without the Mole, but observe that to the northward of the Mole is the best Riding.

To go between Scio and the Main, the Course lies N. by W. and S. by E. in and out over against the Town. On the End of a Riss of Rocks, (but standing in the Water) you see a great Stone Light house or Lanthorn: if you would go into the Haven, this is your Direction for the Entrance; keep about a Ship's length to the northward of it, and sail boldly in with 3 Fa. at low Water. The best of the anchoring off of this Lanthorn, is 10 to 12 Fa. the Lanthorn bearing W.S.W.

North of the Port of Scio, dist. 1 L from the Point of the Island, lies another very good Haven, call'd Porto Delfyu; you may see it very plain as you sail by: Before it lies the little Island of St. George. If you would go into the Haven, you must go close under the Island, on which side of it you please. When you are entred the Haven, you may run up as high as you will, and moor your Ship with a Fast to which Shore you please. keeping one Anglos out to leavest. There

Fogia Mecia 5 Ls. On the W. fide of the Point, on which the Callle of Metelin flands, is a very good Road for S.E. E.N E. and N.E. Winds; and to the northward of the fame Caftle, dift, about 2 tunfhot from it, lies a little Island close to the main Island, leaving just room between them for Ships to ride, as in a Harbour. This Road secures you from S.E. S.W. and N.W. Winds. Also a little to the Westward of that little Island, you may lie shelter'd from all Winds, except N.W. N. and N.E.

To fail between Metelin and the Main, this only Direction is necessary, viz. not to keep in the Mid-Channel, but to either fide which you please; for in the middle lie several dangerous Rocks under Water; but keep on either fide, till the Castle Molivo upon the Island come abreast, then you are sure you are past the Rocks, and may go boldly in the Mid-Channel

again.

There is another good Haven at the W. end of Metelin, called Porco Segue, called fo from Cape Segue; just by it: There is an Island just before it with some Rocks; 'tis observable, that being to the southward of this Haven with a northerly Wind, 'tis not possible to get in, for the northerly Wind blows right out; it is an excellent Haven, deep and safe, no Rocks except one above Water, and no Shoals or soul Ground in any part of it.

Cape Seguri is the W. Point of the Island, it lies with Cape Bobabora N.E. and S.W. dist. from that Cape 6 Ls, from Ipse-

ra 12 Ls, and from Scio 10 Ls.

Ipscra is a small Island lying off of Scio due W. there are several small Islands about it, but one in particular on the W. side of it, maker a Road between, equal to a Harbour, and with this Advantage, that you may fail in at one end, and out at the other, as the Winds may fall, or as your Voyage directs. Here you ride perfectly shelter'd from most Winds, especially from northerly and southerly: Here is indeed a Rock which must be avoided, being 7 to 8 Foot under Water; but passing that, you may anchor where you please.

We are now come to the Gulph of Smyrna, famous for Shipping, and as famous for the Conveniency of the Harbour, and fate Riding for the greatest Ships. The Isle of Scio lying in the Fair Way of all European Ships coming from the S. Pilots are to be had there to carry any Ships up; and if not there, you take them at Cape Barbanola: If you come from the N. they are likewise to be had at Fogia Nuova, which is opposite to the Cape on the E. side; if at neither, you are

in no Danger.

For directing your Course 5 Ls into the Gulph, you need no Pilot at all, the Entrance being at least 4 Ls wide, with 50 to 30 Fa. in the Fair Way to Long Island, and to the S. of the Island also, leaving it on the Starboard side; nor is there any thing dangerous or difficult in the Passage for near 14 Ls sailing into the Gulph: then indeed the Pilot's Skill may be wanted, for which reason I say no more here, but leave it to them, and return to the E. Point of the Gulph; there the Port of Foggia Nova shews you a very good Road in all

Point, on which the oad for S.E. E.N E. of the fame Castle, Island close to the n for Ships to ride, from S.E. S.W. and ward of that little inds, except N.W.

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North of the Port of Scio, dist. 1 L from the Point of the Island, lies another very good Haven, call'd Porto Delfyn; you may see it very plain as you sail by: Before it lies the little Island of St. George. If you would go into the Haven, you must go close under the Island, on which side of it you please. When you are entred the Haven, you may run up as high as you will, and moor your Ship with a Fast to which Shore you please, keeping one Anchor out to seaward. There is a Bank in the middle of the Road, with but 9 to 10 Foot Water on it; but you go clear of it by keeping to either Shore. From Scio to Smyrna the Course is E.N.E. between the little Island Spalmentori and Cape Barbanola.

Spalmentori is a finall Island, lying between Scio and the Main, having several other small green Islands about it; the Channel is good thro' on either side, but the usual way is

between the Island and the Cape, as above.

We have already describ'd the several Courses from among the Islands, and from the European side of the Archipelague to Smyrna: But there is a Passage also on this side among the Asian Islands, and which is the ordinary Course between Smyrna and Ezypt, and between Smyrna and the other Ports of the Levant; which is therefore needful to be described. This as it relates to the Coast of the Lesser Asia, is the Passage from Stantio to Smyrna, or between Stantio and the Main to Smyrna.

The Ships come to the Road of Stantio, either from Cape Solomon at the E. end of Candia, or from Cape Cormacci on the N. fide of Cyprus; and passing between Rhodes and the Main by Cape Grio, being the S.W. Land of Asia, come to an

anchor in the Road of Stantio.

From the Road of Stantio you must go out at the N.W. Point of the Road, where some Wind-mills are seen, giving the Point a Birth of near half a Mile, or keep the Mid-Channel rather in your passing, for on the Island side there is a Shoal for half a Mile, and on the side of the Main lies a Rock or two under Water, and one above: There are also many Rocks and Islands to the N. of Stantio, but they are all above Water, you must leave them all on your Starboard-side, and keep on N.W. by N. towards the sinall Island of Gnideronsa: Leave that also on the same side, going between it and two little Islands call'd Capra and Calimno. This is the fairest and best Passage, the other ways being not so good, we need give no Direction for them.

Having

Sailing Directions for the Coast o

Having got thro' any of these Passages, your Course is N.W. by N. to the W. end of Samos, distance from Stantio 15 Ls; and from the Passages 13 to 14 Ls. There are many little Islands to be seen as you go, some on one Hand, and some on the other: But as the Passage is bold and your Course the same, you will be easily directed.

Of those Islands, one call'd Fornio opposite to Samos makes that which they call the Bocca, or Channels of Samos: The Passage is 2 Miles over, and the Shore on both sides clean and steep too. The Isle of Samos affords no Haven or Road on this side, nor is it of any use to the Navigation of this Course, except by its height, which is such as that it is seen

20 Ls at Sea, to give notice where the Bocca lies.

Nicaria is a small Island dist. 2 Ls from Samos: The Course is W.S.W. and E.N.E. it is to be set on your Larboard-fide in the Passage to Smyrna. From this Bocca de Samos your Course to the Gulph of Smyrna is N.N.W. and N.W. by N. this carries you to the Channel of Scio, between Scio and the Main, which is describ'd already; from whence your Course to Smyrna is also describ'd.

The next Island in this Course S. from Smyrna is that of Rhodes, a Place less famed in Navigation than in History: it lies at the Entrance into the Archipelague, in that we call the Levant Seas, 14 Ls. N.E. by E. from Scarpanta, and 10 Ls.

S.E. from Cape Grio.

The Coast of Rhodes lies high, and is seen in Mid-Channel on the Larboard-side, at the same time as the Main of Asia is from the Starboard-side. From the S.E. Point of it lies a great Rock, which makes at a distance like the Hull of a Ship; and to the N. of that Rock another, distance from the Island about a L. Between these two Rocks, on the E. side of the Island, is a good Road, fair clean Sand, and what depth of Water you please.

N. B. Here you may have fresh Water, what you please,

by digging for it in the falt Sand on the Sea Shore.

Opposite to the Isle of Rhodes, and close aboard the Main of Natolia, lies Casile Rosla, in a small Island with a Castle upon it, at the Bottom of a Bay; between which and the Scasside are some Houses, where you may water also: And behind the Island, between it and the Main, is a very good Road, equal to a Haven, secur'd from all Winds, from Cape Traquille on the E. end of Rhodes to this Castle: The Course is E. by N. distance 29 Ls.

The next Island in these Seas, and in the Course mention'd above, is Cyprus. The E. Point of Candia and the W. Point of Cyprus lie with one another E. half southerly and W. half northerly, dist. 91 Ls. If you are bound from Candia to Cyprus, take care not to go out of that Course, lest you miss the latter, for as the southerly and westerly Winds blow Trade for most part of the Year in that Passage, you may be blown from the Island, and be long setching it up again.

The westermost Point of Cyprus is call'd Cape Pisani, lying N.W. from Bassa about 4 Ls: From that to the northermost

Point, Cape Cormacci, is 16 Ls.

N. B. N.W. from the faid northermost Cape lies a great Rock under Water, which whoever makes in, to ride unand I the I the S Tagigard The Street

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and E.N.E. The Salinas is a deep Bay that goes in N. and S. the Entrance extremely wide, and the Coast lies N.E. from it; the S.W. Point, or S. from the City, is call'd Tagista, or Tagista, having an old Light-house upon it, but not in use. The City of Salinas lies about 3 Ls from it to the N. the Point stretching southward, thwarting part of the Bay.

There is in this part a Mountain, very much higher than all the Hills in the Island: It is call'd Monte Cruis; 'tis, seen here directly over this Bay, tho situate far within the Land: it is so vastly high, that you see it all along the Coast, even on both sides the Island: And it is a Sea-Mark on many Occasions. Bring this Mountain W. of you when you are in the Bay of Salis before the Town, and then you are in the best 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 Ground, having not above 6 Foot Water upon it; 'tis to be known only by the Current, and Breach of the Sea near and upon it: Other than this, there is neither Rock or Shoal, or any other danger upon all the S. Coast of Cyprus, except a sew Rocks close under Shore, a little above the low Point of Sagitta, and which are quite out of the way; all the rest is a clean sair Strand, good riding, and good anchor-hold.

From this Bay to Cape Grega, or Girza, is 7 Ls, the Course E. southerly: Cape Pila is between indeed, but I call that the E. Point of the Salinas Bay. Cape Grega runs out a very long way into the Sea S.E. and northerly from it, about 3 ½ Ls, lies the City and Port of Famagusta, the capital Place of Trade and Shipping for the whole Island; the Haven is large, and capable of receiving good Ships, and the Road before it

very good.

N.E. from the Port of Famagusta, the Shore falling off, trends away to Cape St. Andrew, without any Haven or Bay between, the dist. 12 Ls: This is the castermost Point of Land of the whole Island. There are two or three small Islands lie off of the Cape, but no Rocks or Shoals; so that all is clean, and you may ride under the Cape it self, and on either side of it, with great safety, as the Wather shall direct.

Opposite to the N. Coast of Cyprus lies the Coast of Cilicia, the Port of Stalia, and the antient City of Antiochia: But tho this Coast is full of Rivers and Bays, and some considerable Ports, yet as the Europeans have little or no Commerce with the Country, so they have no Survey of the Coast; nor have we any knowledge of the Soundings, or of the proper places for the Ships to ride in, till we come to the Coast of Syria, and the Gulph of Scanderoon: And therefore we can enter into no Description of it.

From Cape Grega in Cyprus to the S. Point of the Bay of Scanderoon (call'd formerly Alexandretta) the Course is N.E. dist. 37 Ls, and from Cape St. Andrew 21 Ls.

This S. Point of the Bay is call'd Cape de Porcos, a high steep Point; it makes at Sea in three steep Hills. There is another Cape a little to the southward, which makes at a distance like the Snout of a Hog; and from thence the whole Point was call'd Cabo de Porcas. The well marking this Point may prevent your falling into a Mistake which many have committed, of running into the Bay of Antiochia instead of

and on the Sea Shore.

Opposite to the Isle of Rhodes, and close aboard the Main of Natolia, lies Castle Rossa, in a small Island with a Castle upon it, at the Bottom of a Bay; between which and the Seafide are some Houses, where you may water also: And behind the Island, between it and the Main, is a very good Road, equal to a Haven, secur'd from all Winds, from Cape Traquille on the E. end of Rhodes to this Castle: The Course is E. by N. distance 29 Ls.

The next Island in these Seas, and in the Course 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, dist. 91 Ls. If you are bound from Candia to Cyprus, take care not to go out of that Course, lest you miss the latter, for as the foutherly and westerly Winds blow Trade for most part of the Year in that Passage, you may be blown

from the Island, and be long fetching it up again.

The westermost Point of Cyprus is call'd Cape Pisani, lying N.W. from Baffa about 4 Ls: From that to the northermost Point, Cape Cormacci, is 16 Ls.

N. B. N.W. from the faid northermost Cape lies a great Rock under Water, which whoever makes in, to ride un-

der the Point, must beware of.

The fouthermost Cape of the Island is Cape de Gat, dist. from Cape Baffa 11 Ls, the Course S.E. by E. Midway between them lies Cape Blanco, an eminent high Cape, and well known; it is a round Cape, and makes at first in three white Cliffs like Chalk. Cape de Gat is low and flat, and feen but a little way.

Off of the Haven of Baffa about 1 L from the Cape eastward, and about a L from the Main of the Island, lies a Riff or Ledge of Rocks: You may go in either to the E. or W. of them, but the E. Passage is the fairest. You may ride before Baffa in 6 to 8 Fa. keeping by the Main, to avoid the faid

Rocks: 'Tis a good Harbour in most Winds.

The Windshere, like the Sea and Land Breezes in other Countrys, blow off Shore fresh in the Mornings, grow calm with a S. Sun, and blow fresh off Sea towards Evening, and then calm again before the Morning. These alternate Courses on the Wind feldom fail; and as the Sailors know how to ferve themselves of them, they are very much to the Advan-

tage of Trade and of Navigation.

taspe de Gat is a low Point, and runs fo far out into the Sca, that it makes at a diffance like an Island, and as if it stood half a Loff in the Sea. About 5 Ls E. from the Cape is a fair Bay, where you have good anchoring in 7 to 10 Fa. good Ground; your Courfe to it is N. by E. and then N.E. by E. enter the Bay, you fee the City of Limefole directly before you: At the Bottom of the Bay there is a Castle of white Stone stands up above the other Buildings, by which you will know the Town; there is very good Ground to anchor in just before the City in 6 to 12 Fa. fecure from all Winds, except a S. and S.W. When you are in that Road, Cape de Gat bears due S. or S. by W. according as you lie.

From this Bay to the Salmas is 11 Ls, the Course E. by N.

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To the N. of this Cape goes in the Bay of Scanderoon: To know this Bay, and prevent the Mistake above, you must take special notice of the N. side 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 Castles, one antient and in Ruins, the other new built; the Road is fair and good, and without difficulty; yet 'tis fafest for those who are unacquainted to take a Pilot, as well for failing into the Bay, as for chusing the best of the Road.

N. B. This is a different Place from the antient City of Antiochia mention'd above, which stands on the N. Coast of the Country of Cilicia, now call'd Caramania.

Coming from Cyprus, and being bound to Tripoli, the Course from Cape St. Grega is S.S.E. southerly, dist. 32 Ls. In this Courie also great Notice must be taken, and Allowance made for the Current, which all along the E. Coast of the Levant runs very strong, and with an unusual force to the northward; and therefore in failing from Cape Grega you must keep pretty much to the fouthward; tho the Port of Tripeli really is by fituation three Points 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 Paffage, as the Seamen call it, and being forced up to the northward, which it will be very difficult to recover. This Port of Tripoli lies with Scanderson N. by E. and S by W. distance 40 Ls.

If you should make the Land before you make the Port, you must look out for a very high Mountain to the castward of the Coast, which is the famous Mount Libanus, or Lebanon, noted for its Cedars and Fir-Trees, the largest in this part of the World: Bring this Mountain due E. from you, an 'you may be bold to run in for the Road of Tripoli. You will fee this Hill within 12 or 13 Ls of Cipe Grega in Cypius, nay, it

may sometimes be seen from Cyprus it self, that is, from the

Hills about Cape St. Andrew.

When you come near the Shore, you will see at the Foot of Libanus, a little to the N. another lesser Mountain round on the Top, call'd Monte Cruis; and as much to the S. of the Hill, but W. of Libanus, another Hill, with a Pico Top: between the Pico and the Round Hill, lies the Port of Trifoli. As you come still nearcr, you will see a small Ledge of large Rocks lying N. and S. in the Sea; keep to the N. of them, and you will see the Road of Tripoli lying in E. within those Rocks: You have Water enough in this Road, but soul Ground; and you must see that your Cables be very well served, or you may chance to lose your Anchors.

The City stands behind a Wood, so that you see the Houses over the Trees; but between the Wood and the Shore or Strand, are Rows of Pack-houses, or Ware-houses, for the Merchants, where the Ships unlade and relade with great

convenience.

S. by W. from Tripoli lies the Port of Barutti, upon a Promontory running far out into the Sea: The Land is low, and makes at a diffance like an Island, a L from the Shore. Between the Extremity of the Point and the Town there is a Church, and on the W. part of the Point a Light-house. The Town lies on the N. side of the Point, and the Road is on the N. side of the Town, near a Turkish Mosque. The Pico, or steep Hill on the N. side of Mount Lebanon, is a good Mark at Sea, to know how to look for this Point, which is just 13 Ls S. of it. This Port is distance from the

Salinas in Cyprus 45 Ls, the Course S.E. by E. Much at the same distance, not half a L more, but in a S.E. Course, lies the antient Port and City of Sidon: It is on the fame Coast as Barutti, only 14 Ls S.W. 'Tis situate upon a high Rock; and about a Gun-shot from it to seaward lie other great Rocks, which break off the Sea, and make the Haven of the Town. You must run to the northward of those Rocks, and there you will fee the Road: There is a Channel to the S.ward, by which fmall Veffels may come up to the fame Road; but 'tis foul and dangerous for great Ships: The Road is good, a clean Sand, and well shelter'd. Here you ride within two Ships length of the above-named Rocks, in 5 to 7 Fa. with an Anchor a-stern, and a Head-fast a-shore, upon the Rock; and here you may boast that you ride in the first Sea 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 Creek by the Castle, where small Vessels may go in, and which it may be suppos'd was the first Harbour, for the Boats they first made were not too large for that Port: But now the Ships unload in the Road, and the finall Vessels which take out their Goods, run alterwards up to the Town by the

From Tripoli to this Port is a fair clean Strand all the way without Illands or Rocks, Shoals or Riffs of any kind, dift. 24 Ls: they lie S.S.W. and N.F.

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Between this Port and Sidon, are two other Points, on the fouthermost of which is a Light-house, and also a great many Trees; and from that Point you may fee the City of Sidon ly-

ing due N.

S.W. from this Port of Sano (Tyre) lies a high rocky Point, called Cape Blanco, dift. 4 Ls; there is an old decayed Church upon the very Pitch of the Cape, built of white Stone, and is feen far out at Sea; 'tis a very good Mark for you, to thun a Shoal or Riff which runs out to seaward near a L from the Cape, and is very dangerous; 'tis also a good Mark to know the Cape it lelf by. To the N. of the Point allo, and near the Strand, stands a high square Tower, by which you will know the Coast.

S.W. from this Cape 5 Ls, lie Cape Carmel, called now St. Margaret de Amene, and by our rude Seamen plain Si. Pegs, but by the Italian Pilots Cape de Mella. From this Point the Pilots fay a Bank runs out at Sea, but that there is 2 to 3 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 also, by a flat Tower which stands on the top of a Point.

Between this Port and the Cape called Cape Blanco is a large Bay, at the bottom of which lie the Remains of that once famous City and Sca Port of Acon, called Ptolemais, or St. John de Acre, well known in our Histories of the Holy War, for receiving great Fleets of Ships from England, as well as France, and other Places; 'tis now a waste and uninhabited Town, and a ufeless Port.

However, you may still anchor there to the eastward of the Point of the old City, it 7 Fa. but the Ground is not good, to you must take care to serve your Cables well: Here you have very duly the Sea-Breezes, as at Smyrna and other places,

There is a good Road for Ships bound to the fouthward at Caiffa, a small Town upon the Coast, between this Bay and St. Pegs, as also at the Castle of Pelgrini, which lies 4 Ls diff. from Cape Carmel, having 3 Spires upon the Towers or Walls of the old building. Under this Castle is a good Road, with 6 to 7 Fa. but rocky base Ground, as it is upon most of this Coast from Tripoli hither.

Two Ls S. of this Castle lies the antient City and Sea Port of Cafarea: it may be called a Sea Port, because we read so of it; but at present there is neither Haven or Road, so that the very Port is loft, as well as the City, which is not usual; 'tis certain there was formerly a Mole, which was sufficient for the Shipping of those Times, but it has been demolish'd, and is

From hence the Coast goes on still S. and the next Port, and the last indeed on the Coast of Asia in the Levant Seas, is Jaffa, supposed to be the Joppa of the antient History; it lies 7 Ls from Cafarea: it was formerly the Sea Port for Jerufalem, and it may be supposed was then much frequented by Ships, as well as stor'd with Merchants.

Before the City or Port lies a Ledge of Rocks, beginning on the S. parr, and running away N. quite thwart the Place; S.ward, by which small Vessels may come up to the same Road; but 'tis foul and dangerous for great Ships: The Road is good, a clean Sand, and well shelter'd. Here you ride within two Ships length of the above-named Rocks, in 5 to 7 Fa. with an Anchor a-stern, and a Head-sast a-shore, upon the Rock; and here you may boast that you ride in the sirst Sea Port that was ever known in the World, and which remains a good Road, and a Elace of Trade to this Day. There is a little Creek by the Castle, where small Vessels may go in, and which it may be supposed was the first Harbour, for the Boats they first made were not too large for that Port: But now the Ships unload in the Road, and the small Vessels which take out their Goods, run asterwards up to the Town by the Creek.

From Tripoli to this Port is a fair clean Strand all the way without Islands or Rocks, Shoals or Riffs of any kind, dift. 24 Ls; they lie S.S.W. and N.N.E.

S. of Sidon about 7 Ls flands (rather we may fay flood) the antient and famous City and Sea Port of Tyre, once the greateft City of Trade and Navigation in the World; but which is now so sunk, as that it has not so much as retain'd its Name, being call'd now by the Turks Saxo: the antient Haven however, remains very good still, able to receive a great Fleet; the Ruins of the City are still to be seen close by the Sea, and ferve for Sea Marks to go into the Port by. The Haven is on the N. side of the City, and to the westward lie some Rocks, which shelter the Haven from the Winds off Sea, and break the Force of the Water in case of Storms; so that 'tis a very tecure Road, as well as Harbour. You fail round these Rocks to the northward, and then you open the Harbour; then bear up round, and stand in S. leaving the Rocks on your Starboard. side, and fail into the very heart of the City; or of that rather which was the City, for 'tis now waste and in Heaps: Here you are perfectly shelter'd from all Winds, only that a norther-Iv Wind brings in a rolling Sea; but even then the Ships ride fecure enough. Within the Harbour on the S. Point remain many Towers, and Steeples; which are Sea Marks to guide Ships at a farther distance into and out of the Haven; but here is now very little Occasion for them.

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Two Ls S. of this Castle lies the antient City and Sea Port of Cæsarea: it may be called a Sea Port, because we read so of it; but at present there is neither Haven or Road, so that the very Port is lost, as well as the City, which is not usual; 'tis certain there was formerly a Mole, which was sufficient for the Shipping of those Times, but it has been demolish'd, and is now lost.

From hence the Coast goes on still S. and the next Port, and the last indeed on the Coast of Asia in the Levant Seas, is Jassa, supposed to be the Joppa of the antient History; it lies 7 Ls from Casarea: it was formerly the Sea Port for Jerusalem, and it may be supposed was then much frequented by

Ships, as well as stor'd with Merchants.

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 Sea, for here is no Haven, nor can any Ship of Burden come up to the City, only small Boats, the other being kept off by the Ledge of Rocks: There is 10 to 12 Fa. in the Road. Bring 2 Towers, which stand at a dist from the Town, to bear S.E. from you, and you are then in the best of the Road, and pretty good Ground, better than is usual upon this Coast.

The Coast here is very dangerous, the Ground generally in the Bays and Roads soul; so that if you come to ride, unless you are well acquainted, you run great hazard of losing your Anchor; and if you are driven from your Anchor, there's no Shelter upon the whole Coast, but to drive with the Current,

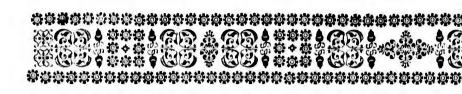
which is extremely furious to the northward.

If you go to ride farther off, 'tis worle; for within Musketshot from the Shore you have 35 to 40 Fa. the Ground so

foft, that your Anchors will hold no Purchase.

15 Ls S. of Jaffa lies the Town of Escalona, the last Town of Asia, but no Port; neither is there any Shipping uses it, for there is no Road, or Haven, nor any Occasion for it: all the rest of the Coast is defart and wild, without Sea-Port or Rivers, or Cities, from Jaffa quite to the City of Damiata, on the Bank of the eastermost Arm of the Nile, which is 53 Ls; where begins the Coast of Africa, which is taken notice of in our Accounts of that Country.

Sailing



Sailing Directions for the Coast of Am thern Parts where they are frequent Hudson's Streights, and the Coas surveyed; and thence southward to I



HE giving Instructions for failing on the Coast of Spitsbergen, vulgarly called Greenland, and also on the Coast of the northern Part of Frobisher's Streights, and the Country called Greenland, and which is the only true Greenland, is now render'd wholly needs Greenland, is now render'd wholly needless, as the Places themselves are useless in Navigation; and is therefore omitted here, as also for the fol-

lowing Reasons.

1. That the Whale Fishing is entirely remov'd from the Shores of Spitsbergen; and no European Ships come any more near the Coasts of those Islands except for Game and Diversion; but they fish now entirely in the open Seas, and among the Ice, far W. and N.W. from the Islands.

2. All the Settlements formerly attempted to the N. of the Streights call'd Hudson's Bay, are abandon'd; and all the Expectations of penetrating by those Streights to find a Pass fage into the South Seas, or the Seas of Jesso and Japan, are given over: so that to speak of those Parts any more in Navigation, would be to direct People to fail wherethey can have no Occasion, and where it is likely none will ever attempt to fail again.

Nor indeed is there any exact Survey of the Coast, within those Streights which we pass to go to the present Colony of Hudson's Bay and Rupert's River; those Settlements being far within the frozen Streights, and where only the Company's Ships, which are but about 2 or 3 in a year, ever go: and their Mariners may be faid to be the only Pilots for the Voyage, the best Accounts given by our printed Pilots being imperfect, and not to be depended upon.

Our Survey therefore will naturally begin with the Coasts of the Continent of America, from the Entrance into the great Gulph of St. Lawrence, and River of Canada; and from the British Colonies, making the South Coast of the great River and Gulph of Canada, which Country is properly called Nova

From the Entrance into Hudson's Bay there is a long open Coast Iving N.N.W. and S.S.E. to the Entrance of the N. Chan-

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ong open N. ChanOff of the Coast lie divers large Banks, tho not equal to the grand Bank of Newfoundland: A brief Account of which take as follows.

1. The Island Bank is the most northerly, and lies on the S. Part of Newfoundland S.S.W. from Placentia Bay, and S.W. from Cape Mary on the Island of Newfoundland; N. by E. from Cape Breton, and on the E. side of the Isle of Gaspe. It is about 40 miles in breadth, and not quite 70 in length, being in Lat. from 46 d. 10 m. to 46 d. 50 m. having generally from 28 to 30 Fa. with 3 small rocky Islands on the outer Edge of it northward.

2. There is a great Bank which lies S. from the Isle of Sables, call'd the Shoals of Sables; it lies S.E. from the N. Coast of Accadia, and from Canseau Bay: This is a very large Bank, being in some places 70 to 80 miles long, dist. from the Coast 43 Ls.

3. Near the same Coast, and parallel with the Shore of Accadia, lies a long Bank call'd the Shoals of Accadia, stretching out in a Line from the height of Cape Sable S. by E. from the said Cape to Lat. 44 d. 20 m. dist. from the Shore from 10 to 20 Ls; and then running away N.E. by E. and due E. till it joins the other Bank call'd the Shoals of Sable, excepting a small Channel of less than 1 L. over. On this Bank of Accadia is from 20 to 45 Fa. and on the other of Sables from 15 to 30 Fa. on the N. side, and from 30 to 47 Fa. on the S. and S.E. side.

4. Besides these, they have a long narrow Bank, lying parallel with the Coast of New England, stretching from the height of Caseo Bay N. to Case St. Anne and opposite to Mercmack River S. This Bank is generally 5 Ls broad, except at the extreme Points, where it goes off tharp to nothing: In length N.E. and S.W. it is 32 Ls, and has upon it from 40 to 47 Fa.

N. B. It is observed, that some of our Map makers describe this Bank in a different manner, and indeed not at all like Sailors; they call it faffrey's Ledge; lessen its Dimensions also, and make it not above 40 miles long, not reaching Nobeyond the River Saco: But as we follow the old New England Pilots, who no question surveyed the Coast, we

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Scotia.

From the Entrance into Hudfon's Bay there is a long open Coast lying N.N.W. and S.S.E. to the Entrance of the N. Channel of the Gulph of St. Lawrence at Bell Isle, being the Passage at the N. end of the Island of Newfoundland, and between Newfoundland and the Terra de Labradore, and the long open Coast just mentioned.

This Coast has not been yet surveyed, as being of no use for Commerce, except that by chance any Ship may be driven in by stress of Weather for fresh Water, and the like; on which Occasions they have reported, that there are very good Bays, tase Roads, and good Harbours, almost any where: But we

have no farther examin'd or enquir'd into them.

The River of Canada goes in by Cape Breton on the Island of Gaspe, being to the NE of New Scotland; and according to the latest Survey, is in Lat. 44d. N. or 44d. 10 m. The Country of Accadia, which is the first Land of the English upon the Continent southward of this Island, was lately conceded to the English by the Treaty of Virecht; and upon that Account we are yet without an accurate Survey of its Coast: The chief thing that can be said is, that the Gulph of Funda, which is its southward Bound, is very good, the Shore clean, and the Depth of Water sufficient for Ships of any Draught quite up to the Town of Annapolis, which is now the Capital of the Country.

This Town lies in a smaller Bay within the great Bay of Funda, and is it felf an excellent Harbour: you may run into the great Bay, with this general Observation only, viz. That it is a fair clean Bay, without any Dangers but what are seen; and if you would go up to the Town you may call for a Pilot.

From hence you have almost innumerable good Harbours, Ports, Islands. Creeks and Coves, all along this Coast, tho there are withal many Rocks and Islands, which makes Pilots so necessary to particular Ports. This is what is properly called the N. Part of the Colony of New England: for as the 3 antient Governments make now but one, their Coasts are also joyned in one Description.

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5. The Charts of this Coast also give us another Shoal, which stretches N. by E. and S. by W. almost the whole length of the Colony, from opposite to the Monument Bay in Lat. 41. to the Point of Accadia call'd Cape Sable in Lat. 44. being 60 Ls; being 10 Ls over towards the S. end, but narrowing gradually all the way to 3 Ls at the N. Point; and having generally from 35 to 37 and 40 Fa. upon it, except at the utmost Edge of it S. where it widens to 23 and 24 Ls, and shoals up to 10 Fa. 3 Fa. and at the outer Edge to 1 Fa. This they call St. George's Bank; it lies dist. from the Mouth of Boston Harbour E. and W. 45 Ls, from the E. side of Cape Cod E S.E. 24 Ls, and passes by the W. end of the Shoals of Accadia, dist. 5 Ls W. by S. Within the 4th Bank are the Havens of Salem, Pifcataway, or Piscatuguy, the River of Merimac, Saco, and feveral others, with Casco Bay, all, especially the former, full of good Havens. Cafeo Bay is full of small Islands and Rocks, as likewise are the Rivers of Piscataway and Saco: But as they would be endless to describe, and that at every Port there are Pilots to carry Ships in, no Stranger can be at a loss here: It is enough to direct any Sailor on this Coast, to keep a good Offing.

From Piscataway to Cape St. Anne is 10 1 Ls, the Course

S. by E.

S. from St. Anne's Point at the dift. of about 10 ½ Ls, lies the Entrance into Bofton Harbour, Marble-Head being between at the S. Point of a very fine Bay, which is all full of Fifting Towns.

Boston Harbour is a place fenced with so many Shoals, Flats, Rocks, and Islands, besides Castles and Forts, that the best Sailor in the World, if unacquainted, could not find his way in or out without the help of a Pilot. There are 3 Channels into it, thro' the most difficult Windings imaginable: There is no need to give Direction, seeing no Ship ventures, as above,

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without Help: It is the like at all the Ports of this Colony, as well to the S. as to the N. This Entrance into Boston Harbour

is called the Broad Sound.

N. B. One thing must be observed here once for all, viz. That whoever sails to this part of the Continent, ought not to come upon the Coast either towards the beginning or end of Winter: for if they come not upon it before the N.W. Winds tall in, or stay till after they are over, 'tis odds but they are blown off the Coast; and if so, they cannot sometimes get in till many Months; and it is no strange thing to have Ships kept off so long, that they have been obliged to run away to the S. even to the Islands, some to Bermudas, some to the Bahamas, and some to the West Indies: or este they have kept beating off at Sea, till they have been starved.

These N.W. Winds blow generally very strong, and excessive cold: for as they come off Shore from the great northern Continent, they bring their Winter with them, and often continue 3 or 4 Months together, viz. from the beginning of Oc-

tober to the end of January, and sometimes longer.

From Cape Cod the Landfalls off W. trending away from Elizabeth Island and Martin's Vineyard W. by S. to the Mouth of Iludfon's River, call'd New York River, passing on the infide of Long Island. In the Bay between, there are many Islands, Rivers and Inlets into the Country, where there are good Harbours, as at the River Connecticut, at New London, Rhode Island, Elizabeth Island, New Plymouth, Sc. at all which there are Pilots, so that we need not enlarge our Description.

Off of the Islands on the E. Shore of Plymouth Colony, there are an incredible Number of Sand Banks and Shoals: There are Good Channels between most of them, and good Marks to guide thro' those Channels; if once acquainted with them; but if not, you must make proper Signals, and the Pilots will come

to vour Affillance.

But as it is a very difficult Course from Cape Cod to the E. end of those Islands and Sands, or to the E. Point of Long Island, called Orfer Point; so you run a great Risque if you come by the Coast, and within the Islands; for the Sands are so many, and the Channels so straiger could never do without a Pilot: Those that are unacquainted therefore, would do better to go without all the Sands, especially those called the Rose and Crown New and Old, and Nantucket Shoal, which lie the sormer N. and N.E. from Nantucket Island, and the latter S.E. from it; stretching out to seaward 15 Ls in length, and above 6 in breadth.

N. B. Between St. George's Bank and these Sands, keeping the Fair Way from Boston Harbour to go without all the Sands, you have 100 Fa. and sometimes no Ground at 200. Come no nearer to the new Rose and Crown than 70 Fa. for 'tis monstrously steep and uneven. N. B. There is a Channel goes in between the Old and the New Rose and Crown: when you come into 40 Fa. you are enter'd into

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rid is l ab H. Tions for the Northern Coasts of America.

Point N.W. from you, and then you may go away N.N.W. between the Spit of Sandy Point, in 7 Fa.

From this Point fouthward you have 15 Fa. to scaward; and fo gradually the Water deepens to scaward, till at the dist. of

20 Ls you come to 80 Fa. and then to no Soundings.

When you are past the Sandy Hook or Point, the Channel up is narrow, but the Soundings are good; and after you pass the S. end of Long Island, the Water deepens to 14 and 15 Fa. But your fasest way is to take a Pilot. The Road where the Ships lie when they come up, is on the N. side of Nut Island, between the Island and Castle Point: the Island which the Castle and Town of New York stand on, is call'd by the same Name; and below there is another call'd Staten Island.

The East Part of the Passage within Long Island, and between the Island and the Main, is call'd the Horse Race, leading to the Haven of New London; from New London, it is a fair clear Sound, and the Course is W. southerly: the best of the Sound is on the side of the Island, where the Channel is

deep, and the Current fets strong to the West.

In the way there is a Point call'd Stratford, running out S. from the Main. S. oif from the Point is a narrow Ridge of Sand, stretching Channel Course, and lying two thirds over the Sound; this must be avoided, but it may easily be so, by not going in the Mid stream; for on either side you have a good Channel, and Water enough. There is also a Risl of Rocks lying N. from a Point on the Island call'd Hemsteed Point; but they are all above Water, and to be seen; and the Fair Way lies between them and the Point in 7 Fa. From thence you see some Islands call'd Minstord Isles; go on S.W. till you come just before them, there come to an Anchor, and take a Pilot to carry you thro' the Streight call'd Hell-Gate, to New York Read.

N. B. The Horse Race lies from the E. Point of Long Island towards New London, which is the Entrance into the Sound, 12 Ls. From the Horse Race to Straford Point is 21 Ls. From Stratford Point to Heemsted Point is 15 Ls. N. B. At Minsord Isles the Sound is brought to 2 miles broad, and the Strait not above half a mile broad, with a rocky foul Coast also. N. B. There are many excellent Harbours all the way on the N. side of Long Island, as also some on the other side, being the S. Shore of the Main, but chiefly on the Island; and any Ship of Burden may sail with Safety as far as the Strait of the Sound, but there it is difficult, so that great Ships usually go about.

At the W. end of this Island goes in the Harbour of New York, being in the Opening of Iludson's River: The River surrounds the City, but chiefly on the W. part, where the Harbour may be said to be; the Road is good, and the Ships ride as near the Town as they please in 5 to 11 Fa. the River is large and deep, and navigable for small Vessels up to Albany above 100 miles; yet notwithstanding the Goodness of the Harbour, Strangers always take a Pilot.

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Sands, keeping without all the Ground at 200. own than 70 Fa.

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come by the Coast, and within the Islands; for the Sands are so many, and the Channels so strait, that tho there is Depth of Water enough, yet a Stranger could never do without a Pilot: Those that are unacquainted therefore, would do better to go without all the Sands, especially those call the Rose and Crown New and Old, and Nantucket Shoal, which lie the former N. and N.E. from Nantucket Island, and the latter S.E. from it; stretching out to seaward 15 Ls in length, and above 6 in breadth.

N. B. Between St. George's Bank and these Sands, keeping the Fair Way from Boston Harbour to go without all the Sands, you have 100 Fa. and sometimes no Ground at 200. Come no nearer to the new Rose and Crown than 70 Fa. for 'tis monstrously steep and uneven. N. B. There is a Channel goes in between the Old and the New Rose and Crown: when you come into 40 Fa. you are enter'd into it, and it soon shoals upon you to 20 Fa. then to 10, and at last to 4, and one way it falls to 2 Fa. so that there is no passing in that Channel without great Difficulty. N. B. Going without all these Sands, the Course is S.E. from 10 Ls N. of Cape Cod to Lat. 41 d. then due S. to the Lat. 40 or 39 d. 10 m. Then due W. and W.N.W. till you come into Block Island Channel; then N.W. by N. till you make the E. Point of Long Island.

Long Island lies off of the Coast, parallel with the Shore of the S. part of the Colony for upwards of 140 miles in length, dist from the Shore usually from 5 to 10 and 12 Ls. The Ports of New London, New Haven, Connecticut River, and several less considerable Harbours, are within it: On the Off side runs a long Shoal of Sand and Beach parallel with the Shore, but in most places about a L from it, not any where joyning to it; stretching on thus for above 30 Ls, so that there are no Harbeurs or Ports on that side of the Island, the Sand being dry and not passable by any Vessels, except at one Inlet call'd the

Passage.

The Land at the S. Part of Long Island stretches E. by N. and W. by S. and from thence E.N.E. to the E. Point. Ships pass to New York by a Channel off of the S. end of this Island: But from the S.E. Point there runs a Rist, or Shoal of Sand, stretching thwart the whole Channel almost to Sandy Point, on the side of Sersey; you must go round this Rist, except that at the end of it for some length there is 3 Fa. upon it, but farther NW. there is but 3 Foot Water on it.

In the Channel between this Riss and the Coast of Jersey, and Sandy Point in particular, there is 7 to 8 Fa. and good Cround; and afterward all the way up this Channel you have 8 to 14 Fa. quite to the Town of New York. This is the main Paisage for the Port, and is about a mile and half over.

Sandy Point is high Ground, and round at the top: The Pitch of the Point is called Portland. In passing thro' here, take care not to come too near Sandy Point; for there lies foul Ground, and there also is shoal Water. Bring the Sandy

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Small Vessels go quite thro' here in the Channel within the Island; but the Channel at the W. end next to New York is narrow, and the call'd Hell-Gate, 'tis a strait not a wide Passage.

From New York the Shore pulles out S.S.E. to Middle ton's Point, dist. from Long Island, about 13 Ls. There is a large River opens between (making a finall Bay in the Mouth of it) and good anchoring in the Road before it, and so in several Places behind the little Islands, which lie all the way on the The navigable Outlet of Hudson's River comes all out this way to Sandy Point, and then opens into the Sca, together with the Outlet from the N. fide of East Jersey: There is 8 to 12 Fa, in this Channel.

From Middleton's Point the Shore goes away S S.W. to the Mouth of Delaware Bay, ending at the W. Point of Delaware River, and the said Shore is the E. Coast of the Colony of New Jersey; this is a very large and navigable River, which empties it felf into the Sea, from the Colony of Pen-Stvania, wathing the W. Shore allo of the Province of New Terfey.

This River is supposed to be of a very great length, seeing at the Town of Philadelphia, where a less River falls into the Delaware, and at the distance of above 30 Ls from the Sea, Ships of 500 Tun 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 several good Havens on the fersey fide of this River, and a fufficient depth of Water in most of them, but especially in what they call Prince Maurice's River.

The Bay goes in N.W. but inclines to the N. as foon as you are in, running up first N.W. by N. for 20 or 30 Miles, then due N. as much more, and then turns to the eaftward of the N. to that for 30 Miles before it comes to Philadelphia it lies N.E. and S.W.

On both fides this River, which divides New Jersey and Maryland, there are many Creeks and Rivers, where there is good anchoring and good Harbour; at Elsemburgh in particular, on the ferfey fide, there is a good Harbour for great Ships, Land-lock'd from all danger. There are some Islands in

Sailing Directions for the Coast of Virg

the broad part of the Bay, and feveral Shoals; but they are fo well known, and so mark'd out, that there is little need of a Pilot.

On the S. Coast of Jersey, E. of the Bay, lie four Islands stretching N.E. and S.W. parallel with the Main; and between these Islands and the Main are several good Harbours and Roads, and the Channel within them is large and good.

Without these Islands there lie also at the Osfing opposite to them, several Sands or Banks all the way, but chiesly at the several Entrances between the Islands, as far northward as the Islands lie extended; the Channels between them answering

to the several Channels between the Islands.

S. of the last of these Banks of Sand lies a large Shoal, firetching as it were thwart the Mouth of the Bay, but at the distance of 6 Ls Offing; also when you go in, on the S. side and on the N. are large Sands; but the main Channel is in the Middle with 15 to 18 Fa. fufficient for the largest Ships; so that thole Banks are no Obstruction to the Navigation of the

The best going in is on the S. side: Keep about a Mile from the Point: After you are within the first Cape, you will see another Cape before you on the lame fide, call'd Cape James

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Sailing Directions for the Coast of Virginia and Mai ware Bay exclusive, to the Port Royal on the South sive: With a Description of the Currents in the Gu



ROM Cape Henlopen on the W. fide of the Entrance into Delaware Bay, the Coast being properly part of the Colony of Maryland, trends away S. by E. about 40 Miles to a finall round Point, at the Opening of a Creek which our Pilots call Af-

fateacq; and from thence falling off to the westward, goes away S by W. for near 30 Ls more to the Capes, call'd fo by way of Emmence, but for Diftinction the Capes of Virginia, being the Entrance into the great Bay of Chefapeak, the main Harbour and Inlet to all the Colony. As for the failing Directions for every River and Creek within this Bay, with the Bearings, the Shoals, Rocks, Havens, &c. in every part, as it would take up almost a Volume it cannot be expected.

It must suffice here, as in other places of like nature, (I do not fay of equal Dimensions and Variety, for that is not in the World) to lead you to the Entrance or Opening of the Bay, and then call for Pilots to direct you waere your Occa-

from thall require.

The S. and S.E. Coast of Maryland mention'd above, we do not find has any confiderable Harbours; it is a long narrow Peninfula of Land between the Bay and the Sea; and the Harbours and Roads lie all to convenient, and are to numerous on the other fide within the Bay, that as the Coast on the Ocean is very difficult and almost impracticable, so that Want is fully supply'd on the inner Shore, where there is not a Plantation but has some navigable Stream or Creek comes close up to it from the Bay.

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or Henlopen; make up to it, and when you are broad-side with it, steer N.N.E. about 2 Ls farther up.

In this Course take heed the Tide does not horse you up too far to the westward at first; for there are several Sands on that side which are scarce passable; but keep the Mid-Channel, which is the Fair Way, and so pass thro' keeping to the E. or W. side of it, according as you are bound either to one or other side of the River.

In this Mid-Channel you have at the Entrance 12 Fa and it holds that depth for near 4 Ls up; after which it shoals to 6 and 7 Fa. which it hold most part of the way up for 70 to 80 Miles: After which it rather deepens, as the Channel is nargower than before.

N. B. A S.E. Moon makes full Sea in *Delaware Bay*; and the Tides fet thus, the Flood E.N.E. and the Ebb S.S.W. At New York the Tides fet S.E. by E. and N.W. by W.

At Bofton S. by E. and N. by W.

At Rhode Island, and the N.W. Point of Black Island, S.E. by E. and N.W. by W.

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At your first coming to an anchor off Cape Henry, as also off of Smith's Island on the side of Cape Charles, the Pilots will come off to you either with or without a Signal.

The breadth of the Entrance of the Bay between the Capes is 5 Ls; the Bay within widens in some places to a vast breadth; and the Mouth of Potowmack River falling into the Bay, is not less than 7½ Ls over: The Channels are all very good, most of them clean and deep; and there are such 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 discover'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 felf but a navigable River, yet the greatest Ships run up 200 Miles: Other Rivers fall into it, navigable 150 to 160 Miles wide from the Bay W. others fall into those Rivers navigable 50 to 60 Miles either way N. and S. and so of others again: And in all of them, and almost in every Creek, deep Water, soft Ground, and land lock'd from all Winds. I need say no more to tell the Mariner why he has not particular Directions for every Place; 'tis enough to say it would be endless and impracticable; and that wherever he is to go, he may be sure of a Pilot.

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fions shall require.

The S. and S.E. Coast of Maryland mention'd above, we do not find has any considerable Harbours; it is a long narrow Peninsula of Land between the Bay and the Sea; and the Harbours and Roads lie all so convenient, and are so numerous on the other side within the Bay, that as the Coast on the Ocean is very difficult and almost impracticable, so that Want is fully supply'd on the inner Shore, where there is not a Plantation but has some navigable Stream or Creek comes close up to it from the Bay.

The Shoals about Cape Charles, which make the Point on the Maryland fide, are so many, that no Ships can either come near the Coast from the Sea, or near the Cape at their Entrance into the Bay. The Rist of Sand at the Cape runs off to the Sand call'd the Middle Ground, in the Entrance of the Bay; so that no Ships of burden go in on that side, the Middle Ground it self having but 10 to 11 Foot upon it at low Water. There is a Channel indeed on the inside of the Shoal, close under the Cape; but there are so many Shoals lie off in the Entrance on that side in particular, that a Stranger should by no means go in with Cape Charles unless he is surnish'd with an able Pilot: On the contrary, on the other side under Cape Henry, you have good Soundings and deep Water.

When you are off at Sea, and first make the Capes at the distance of 7 to 8 Ls, you have gradual Shoalings in 10 to 11 Fa, and from that to 9 Fa. If you are a little to the southward, you will have 35 to 30 Fa at the same distance; and by that Difference you will know if you have over-shot the Capes.

At 10 to 12 Ls in Lat. 25 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, so that you cannot see the Coast at 7 Ls Offing: And this, with the uncertainty of the Currents upon the Coast, is one Reason why many otherwise skilful Mariners often out run their dead Reckoning, and shoot beyond

the Capes before they make the Land.

It is first to be observed, that in coming from England to Virginia, even before you have any Soundings at the distance of a Lis from the Land, you will find a fierce Current setting to the northward and the eastward; and the nearer you come to the Land, the more it sets to the northward, till you come to have Soundings in 40 to 50 Fa. distance from the Land 16 to 18 Lis: Then you will find the Current abate, and coming into shoaler Water, viz. into 20 to 15 Fa. which you do as it

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From Cape Henry the Shore falls away to the S. to Carolina: The first part of the Course is due S. to Cape Hatteras, distance from the Offing of the Capes 40 Ls, no Place of note This Cape lies in Lat. 35 d. 5 m. But the the Coast between. lies S. you must steer S. by E. or S.S.E. to go without a Riff or Shoal which lies off of the Cape, stretching above 20 Miles The Shoal cannot be gone over; but in a S. by into the Sea. E. Course you will go all the way in 15 to 20 Fa. There are several Openings on the Coast before you come to Cape Hatteras; but as the Country next to Virginia is not fully planted on the Sea Coast, those Openings are of little Use, and but little known. The Opening at this Cape goes into Albemarle River, which is the most northerly Harbour of North Carolina.

From hence the Coast salls off to the W. so much, that from Cape Hatteras to Cape Fear, which is no less than 50 Ls, the Course is all S.W. and S.W. by W. There are divers large Rivers and Bays, with several Islands and Ports, and especially many good Harbours and Roads: But as this Colony of Carolina is but a young Settlement, compared with the others, the Coast has not been so fully survey'd, at least we cannot find it has; so that we must pass it with the less Observation.

Off of Cape Fear there runs a Spit of Sand for 7 Ls out into the Sea due S. and at the End of it, after narrowing to a small thread, almost to nothing, it ends in a large Circle of Sand a full L in Diameter.

On the W. fide of this Cape comes in a large River call'd Clarendon River, which is capable of receiving good Ships: But we have no Account of the Depths of the Channel, or of the Shoals or Soundings in it, or in the Entrance into it.

From Cape Fear the Coast trends in the Jame Course S.W. by W. to Cape Carteret, dist. almost 15 Ls: There is a clean Coast and good Soundings all the way; and from thence the

Course abates one Point, and lies S.W. to Athley and Cooper's Rivers, the diffance from Clarendon River 12 Ls. This Allilev River lies exactly in Lat. 32 d. 45 m. and to the westward of the Land's-End of England 1100 Ls.

In your making this Coast from the Sea, when you come within 60 to 40 Ls of the Shore in the Latitude of the Country, you will feel a strong Current setting to the N.E. just as is

mention'd above in coming to the Coast of Virginia.

When you have a true Observation, and find you are in the exact Latitude of the Place, run boldly in; and at about 25 Ls from the Land you will have Soundings in 20 Fa. and then you find no Current at all, but you may trust to the simple Motion of the Ship to reckon by. Thus you may stand in bold for the very River, till you come to 6 Fa. thwart the Bar, and there you may anchor in very good Ground.

Upon the Bar you have 3 Fa. at high Water, but no more than 11 Foot at low Water: But when you are in, you have

4 to 6 Fa and no where less than 3.

N. B. It obbs at the Bar of All lev River an Hour and half before it ebbs at the Point call'd Oyster Point. best going in is an Hour and half before high Water.

N. B. If you are not acquainted with the Channel, lie by off the Bar, and make a Signal for a Pilot: Nor must

you go out without one.

From All ley River to Port Royal the Course is S.W. by S. If you are bound hither from the Sea, stand directly in W. when you are in 32 d. 6 m. Lat. When you come into Soundings, and find 20 to 25 Fa. you may depend you are within 15 Ls of the Land. Keep on their till you make the Land, which will not be till you are within 6 Ls of it, nor then unlets the Weather be clear; for the Coast lies low, and the Mountains which are up in the Country are too far off, to shew themielves far out at Sea.

The Woods upon the flat Country are generally feen first, for the Trees are exceeding tall, and thew themselves a great way: When you first see the Trees, you will be in about 4 and 5 Fa. Keep your Lead going, if the Weather is thick, for in that Depth you will be within 1 \(\frac{1}{2} \) L off of St. Michael's-

bead

Off of St. Michael's-head there is a great Shoal: You must go away W. by S. to go round the Point of it; then you will fee the Breakers upon a Shoal call'd Cole's Clare. Clofe to the Sand you will have 4 1 to 4 Fa. you may steer close to it, for it is steep too; and leaving it on your Starboard side, go on till you fee another Breaking, which is on a Shoal call'd Martin's Industry. Between those two Sands goes in the Channel to the Haven of Port Royal: 'Tis a broad Channel at least a Mile over; and in the Fair Way you have 4 Fa. at least every where.

Being open with the Channel, steer in W. or W. by N. till you bring a Point, which you will fee over your Starboard-Bow, to bear N.N.W. this is call'd Philip's Point. Go right with that Point, and you will have 7 to 9 Fa. When you are a breast of the Point, keep a little off, and go away N. by

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along the S. Coast of the Main, and by the Mouth of the great River Millisppi, they come on between the N. part of the Island of Cuba and the S.E. head Land of America, call'd Cape Florida, where the Islands and Shoals call'd the Bahama Bank, lying to the castward, giving them another Check, they drive up to the northward thro' the great Passage call'd the Gulph of Florida, between the Islands and Shoals call'd New Providence, or the Bahamas, and the Coast of Florida; and by this way disembogue themselves into the great Ocean.

A. B. This Current is so sierce, that tho the Winds generally blow fair to go thro' the Gulph to the southward, yet 'tisvery rarely that any Ships attempt to force thro' that way: For if the Wind blow very hard against the Current it makes so great a Sea, that Ships can hardly live in it; and if it be calm, or but little Wind, they are sure to be driven back quite out of the Gulph, for the Force of the Current is such, that the greatest Anchors are immediately torn out of the Ground by it.

This is the Reason why all European Ships bound to the Islands, or to any of the Ports of Mexico, go away to the southward, and do not make for this Gulph, which would otherwise be much the shorter Voyage: And 'tis therefore necessary that all Mariners using this Trade should be Masters of the Reason and Nature of these Currents, that they may guide themselves accordingly.

The Coast of Florida, which makes the W. side of this great Gulph, lies due N. and S. from the southermost Coast of South Carolina, from Lat. 31 d. 40 m. to Lat. 24 d. 45 m. ranging opposite to, and parallel with the two great Bahama Banks; which, as above, are the Cause of turning the Course of the Sea up the Channel of the Gulph with such Violence.

The Spaniards have a Port on the N. part of this Coast call'd Fort St. Angustine, where they have a good Harbour in Lat. 30 d. They have also another small Harbour at St. Matthew's; at both there are good Bays, in which there is Anchorage for large Fleets on Occasion.

South of these Ports it is all a dangerous flat Coast, except a small Inlet call'd the Bay of Musquetos; 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; so that if any Ships come on Shore here, there is nothing but present death before them, as was the Case of a whole Fleet of Spants Galleons, lost here with an immense Treasure, about the Year 1716.

At the fouthermost part of this Coast lie abundance of Rocks among the Shoals, which makes the Coast still the worse, and at the Extremity S. lie a Cluster of great Rocks or Islands, as some Charts call them, call'd the Martiers: There is no coming near them but at the utmost peril, being all surrounded with Shoals of Sands. These Martiers reach along Shore E. and W. 12 Ls.

West from these Rocks, and distance from the eastermost of them 20 Ls, lies the Point of Land call'd Cape Florida. stretching out far into the Sea S.W. but W. by S. from the Flats.

and 5 Pa. Keep your Lead going, it the Weather is thick, for in that Depth you will be within 1 ! L off of St. Michael's-

bead.

Off of St Michael's head there is a great Shoal: You must to away W. by S. to go round the Point of it; then you will fee the Breakers upon a Shoal call'd Cole's Clare. to the Sand you will have 4 to 4 Fa. you may steer close to it, for it is steep too; and leaving it on your Starboard side, go on till you fee another Breaking, which is on a Shoal call'd Martin's Industry. Between those two Sands goes in the Channel to the Haven of Port Royal: 'Tis a broad Channel at least a Mile over; and in the Fair Way you have 4 Fa. at least every where.

Being open with the Channel, steer in W. or W. by N. till you bring a Point, which you will fee over your Starboard-Bow, to bear N.N.W. this is call'd Philip's Point. Go right with that Point, and you will have 7 to 9 Fa. When you are a breaft of the Point, keep a little off, and go away N. by W. half W. till you come into 6 and 5 Fa. There you have a fine fafe Harbour, good Ground, and land-lock'd from all

Winds on every fide.

N. B. It is to be observ'd, that all the Winds from a N.E. to a S.E. bring in a high Tide here, and upon all this Coast, and generally alter the Course of the Flood.

N. B. At Full and Change it flows here S.E. by E. and N.W. by W. the Flood fetting always to the northward, and after you are above 6 Ls from the Shore, there is no

Tide at all.

From this fouthmost Coast of Carolina we may begin to mention the Gulyh of Florida, for the Currents of the Gulph are felt thus far: A short Account of these Currents, and of their being to violent in this Part, is needful to be given here once for all, and is as follows.

It is well known that to the fouthward, and among the Caribbee Islands, the N.E. Winds blow Trade continually, without any Alteration, from off the Sea, and almost from the Coast of Africa to those Islands, which are therefore call'd the

Leeward Islands.

This conftant Wind naturally carrying the Sea along with it, the Water is forced along between the S.W. end of the Island Cuba and the N.E. Point of the Province of Jucatan, into the great Bay of Mexico; where being refifted by the main Land at the Bottom of the Bay, the weight of Water prefling full forward, they necessarily drive away to the N.W. part of the Bay; and making their way with an irrefishble fury

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West from these Rocks, and distance from the eastermost of them 20 Ls, lies the Point of Land call'd Cape Florida, stretching out far into the Sea S.W. but W. by S. from the Flats of the Martiers: And farther W. by S. from the Point lie three Islands, in a triangular Situation, call'd the Tortugas.

East from the Shore of Florida, and making the other fide of the Gulph in conjuction with the Banks mention'd above, lie the Bah ma Islands: The Navigation of them is of finall import, and the Number of the Channels among them being like the Islands themselves, innumerable, are not to be described.

The Grand Bahama Bank lies here between these Seas and the Bahama Islands: This Bank begins at a little nameless Island in Lat. 21 d. 40 m. opposite to Cape Cruis, on the N.E. Shore of the Island of Cuba. The Channel between Cape Cruis, and the Shoal or Bank, is call'd the Old Streights of Bahama; the Fair Way of the Streight at the Point is 8 Ls broad, the straitned on the S. side by some Rocks and little Islands on the fide of Cuba. From this Point the Bank trends away to the N.W. all the way edg'd with Rocks on the S.W. and W. fide, as it is with Islands on the N.E. fide, as far as to the Tropick in Lat. 23 d. 4 m. and then turning due N. makes, above, the E. side of the Entrance into the Gulph of Florida, call'd, because of the Bank, the Channel of Bahama; containing this Course N. a little easterly for above 40 Ls, being to the Lat. of 25 d. 40 m. On the E. fide of this Bank are the Islands of Androfs, Providence, and the rest of the Bahama N. B. This I take to be the largest Bank of Sand Illands. in the known World, being 120 Ls in length, and at the S.E. end 15 Ls in breadth.

Sailing

Sailing Directions for the Coasts of the Islands on the Newfoundland inclusive, to the Barmudas; and to Tobago inclusive.

HO this Patt is call'd failing Directions for the Islands of America, yet we must acquaint the Reader that we are to be under stood only of the distant and more considerable Islands, such as lying remove from the

Continent, are known in Trade and Navigation; and that the finall and less considerable Islands, especially such as lie near the Main, are omitted, either where no just Occasion made it necessary to speak of them, or where it was necessary to mention them, they are spoken of, and the Navigation and Coasts directed and describ'd, at the same time as the adjacent Continent is describ'd or directed to.

The Reason of this is fully accounted for in our Geographical Part, and particularly in speaking of the Islands on the Coast of Italy: And the same Reasons hold good here, with this Addition, viz. That in the navigating Part it is not practicable to give sull Directions for failing upon the Coast, and not include an Account of those Islands which lie contiguous, and so near as to be within small Distances from the Main. For,

1. In many Places the Riffs and Shoals to be avoided in the going into such and such Harbours, Roads, and Bays as are describ'd, run out from, or some way or other join to such Islands; so that one cannot be describ'd without the other, as is evident on this very Coast, at Long Island by New York, Smith's Island at the Capes of Virginia, Rhode Island, Martin's Vincyard, &c. on the Coast of New England; the Island of Gaspe at Cape Breton, and innumerable others.

2. Multitudes of these Islands could not be describ'd without the Continent, any more than the Continent without them; the Marks for entring the Ports being reciprocally assistant one to another; so that it would be persectly incoherent not to

speak of them together.

The following Directions therefore for failing upon the Coasts of the Islands, are to be understood chiefly of such, as, lying remote from the Coast of the Main, are of importance, as well for Commerce, as for Navigation, and as are not spoken of in our failing Directions for the adjacent Coasts: And we begin with the Island of Newfoundland, not only as it is the greatest Island in the American Seas, and the most significant in Navigation, but as by its Situation it comes to be first spoken to, being the most northerly Island upon the Coast of America, from the Entrance into Hudson's Bay southward.

Sailing Directions for the East and South Coasts of the great Island of Newfoundland, or so much thereof as is

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The next Harbour is Formowes, distant from Renowes Point a L and half, its Situation from Renowes N.E. by N. N.E. and N. trending about the Points of Land that stretch out between them; but the Course is N.N.E. till you open the Harbour. Between these Harbours is Bears Cove, a good sishing-place for Boats, but a wild uninhabited Country.

The Harbour of Fermowes is good, and the going in bold; it lies N,W. in, and N.W. by N. and there are feveral Coves on either fide when you are in, most of them able to recive good Ships; such as,

1. Clear's Cove, on the N. which is the Starboard-fide going in.

2. Admiral's Cove, on the same side, but a little farther in to the westward. In this last there is 7 to 8 Fa. Water, good anchoring, well secured, and a Plantation on Shore.

3. Vice-Admiral's Cove, farther in, but on the other or Larboard-fide. Here a Fleer may ride in good Ground, and landlock'd from all Winds.

4. Another Cove, but nameless, on the same side farther in W. where also is an excellent Harbour for great Ships.

In the Entrance of Fermowes you have 20 Fa. within from 6 to 14, good Ground, and all fafe; it runs up 1 + L at leaft.

About a L beyond Fermowes N.N.E. lies Agua Fort, but the Course is N.E. In this little distance here are two Heads, and Bays within them, about a Mile distant from one another: Boats may go into those Bays to fish, but no offering to land in a Storm, how great soever the Necessity, for you will be staved against the Rocks. The first and southermost of these Heads is call'd Bald Head, and the second Black Head; they lie N. and S. from one another.

From Black Head to the Point of Aqua Fort Harbour is but a Mile, but the Course is N.W. by N. occasion'd by the lying of the Point; and the Entrance into the Harbour is W.N.W. the distance between is a short Mile. On the S. side of the Entrance lies a great Rock, but not dangerous, became 'tis bold and above Water: The Road is on the N. side of the Harbour about 2 Miles in, there you lie as safe as in a wet Dock, so near the Shore, that you may make a Stage from your Ship to your Fish-Stage a-shore, and load your Vessel with the greatest ease imaginable.

From hence 'tis 3 Miles to the S. part of Ferryland head, the Course E. and a Mile of the way lies Crow Island. E.N.E. from the S.E. end of that Island lies a Shoal about a Cable's

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Sailing Directions for the East and South Coasts of the ereat Island of Newfoundland, or so much thereof as is fully furvey'd; the North and East Parts, and those formerly pollets'd by the French, being not yet finish'd.

APE Race is the utmost Point of Newfoundland S.E. I From whence to the N. coasting along the eastern Shore, you will find it full of deep Bays, large Coves and Rivers, and most excellent Harbours, all very useful to the English Sailors, who much frequent the Coast, either for the white Fishing off at Sea, or for the Salmon Fishing in the Creeks and Rivers.

From this Cape Race northward the first head Land is Cape Ballard, dift. about 4 Ls, the Course is N.N.E. Mid-way between them is Glam Cove, a finall Place, only fit to receive finall Fishing-Boats; N. from which is Chain Cove of the like There are some Rocks before this last, but no Harbour or anchoring-place between the two Capes for Ships of burden, or room for them to come in to fish; so that Ships ride in the Offing, or go farther N to Fresh-water Bay, and fend their

Boats into thele Coves to fish.

Freth-water Bay is about 4 Miles from Cape Ballard; and 4 Miles beyond that, is the Harbour of Renowes, which before the last Peace with France was the fouthermost Harbour posselfed by the English in Newfoundland; the French being Masters of all the S. and S.E. Shores of the Island. The S. Point of the Harbour is diffant from Cape Ballard 2 Ls; 'tis but an indifferent Harbout to put in at, there being many Dangers in the Entrance, so that a Pilot is very necessary for those who are unacquainted with the Place; but 'tis a good Harbour to fith in, and therefore in the Scalon it is cover'd with Boats and Shallops.

N. B. When a Ship is piloted in, there is not above 15 Foot, and but very little Drift, the Shoals, which are ma-

ny, intercepting the Current.

There is a finall Island lying a little from the S.E. Point of the Entrance into Renowes Harbour; and about half a L from the S. Point lies a great high Rock S.E. by E. call'd Renowes

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Boats may go into those Bays to fish, but no offering to land in a Storm, how great soever the Necessity, for you will be staved against the Rocks. The first and southermost of these Heads is call'd Bald Head, and the second Black Head; they lie N. and S. from one another.

From Black Head to the Point of Agua Fort Harbour is but a Mile, but the Course is N.W. by N. occasion'd by the lying of the Point; and the Entrance into the Harbour is W.N.W. the distance between is a short Mile. On the S. side of the Entrance lies a great Rock, but not dangerous, because 'tis bold and above Water: The Road is on the N. side of the Harbour about 2 Miles in, there you lie as safe as in a wet Dock, so near the Shore, that you may make a Stage from your Ship to your Fish-Stage a-shore, and load your Vessel with the greatest ease imaginable.

From hence 'tis 3 Miles to the S. part of Ferryland head, the Courie E, and a Mile of the way lies Crow Island. E.N.E. from the S.E. end of that Island lies a Shoal about a Cable's length off; give the Island a Birth, and you go clear of it. From the N. part of the Head to Ferryland Harbour, the distance is but 2 Miles, yet the Course alters to W. by N. To go in there, you must fail between the N. side of the Head and Buoy Island; the Channel is narrow, but deep, and the Ground clean: When you are thro' there is room chough, and good riding on any side as the Winds may lie. There is a place on the Larboard side, 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 Admiral Fishermen generally ride, the Stages for the Fish lying very near, and several Plantations and Inhabitants on Shore. From this Buoy Island there are several other little Islands, or Rocks rather, which serve to make the Harbour the more secure, and which divide the Place it self from another Inlet call'd Caplin Buy: You may go thro' among them in several Places with

small Boats, but not with larger Vessels.

N. B. The Tide riles here not above 3 to 5 Foot, and the like in most of the Haibours on this Coast.

Four Miles from Ferryland-head lies Broyle-head, the Course N. by E. There are 3 Islands in the mid-way, viz. Buoy Island, Goofe Island, and Stone Island, all lying off the Entrance into Caplin Bay: Between the two first you may sail into the Bay, the Passage is broad enough for good Ships to turn in, if they please; but no Ships can pass between Stone Island and the Main, which is Cape Broyle; there is a Channel indeed at the Cape, but it is interrupted by a Rock; however Boats may go in there at pleasure.

Caplin Bay is a very good Road, it runs in W.N.W. at least 2 Ls beyond these Islands, and there is very fase lying for Ships of any burden: Here the Newfoundland Fleets readez-vous very often in time of War, and when they wait for Con-

voy to the Streights, or to the Coast of Syam,

From Broyle-head the Harbour call'd by the time Name lies W.N.W. and N.W. by W. the ordinary Courle, and then the

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distance is a 11s; but if you fland off, 'tis fomething more. The Entrance between the Points is about a Miles, and they

lie N. by W. and S. by E. one from the other.

About ; of a Mile E.S.E. from the N. Point of this Harbour, lies a funk Rock call'd Old Harry; tho there is ; Fa. Water upon it, yet the Sea in bad Weather breaks most furroufly upon it: On the out side of it there is a Ledge of Rocks, lying much about the same depth, and where they is'd to sish.

Within those Rocks there is a good Channel with 12 to 13 Fa. and just without the Ledge there is 40 to 50 Fa. and in some places much more: The Rage of the Sea is such upon these Rocks, that some in very bad Weather it breaks over all quite from them, and reaches to the Main: This is occasion'd by the Current which generally sets strong to the southward

From Cafe Broyle to 8. Brigus is 1 L, tho from the North Head of the Bay it is but a Mile. Brigus lies in N.W. and N.W. by W. 'Tis a finall Harbour or Cove, fit only for Veffels drawing - to 8 Foot Water, neither are they well fecured when they are in; but it is a good Place for fifling, and there are two hibitantial Planters live on Shore, who furnish Provisions and Retreilments to the Scamen. There is an Island of the faine Name, where the fifling Trade is carried on, and where they who come a fifling build their Stages, and make their Fish, as they call it: But its all a Place of finall Importance.

From hence to Cape No. Model is 3 Miles, the from Cape Broyle it is 5 Miles: The Course is N by E. northerly Between these is Freshwater Bas, but equally of no concern to

Trade or Navigation.
There are a Multitude of little Coves all along upon this Coast, which we will but just name; as, 1. Baline-head. diff. al. 2. Lamanche, a small Cove. 3 Baline Cove., a Stage

tor filling with 2 or 3 Boats, but no more; it is a poor Place, behind a Rock call'd the IFhalo's Back. 4. Gofe Island, ever-against it. 5. Island & Spear. 6. Toad's Cove. 7. Fox's Island. 8. Monadhes Bay, and thence at the N. Point of the Bay 15, 9. Green Island. 1-. Whiles Bay. 11. Bay of Bas. .

All these except the Bay of Bulls and Hitles Bay, are small Harbours, and for small Vessels: They lie generally in a Line upon the Coast from Balme-beat N. by E. to N.N.E. northerly, except Witless Bay, which is said to lie N.N.W. This Hitless Bay lies from Balme-Head about 3 Ls and half. They are all good sissing Harbours, but for Boats only.

Makefi Bay hes a large L within Gull Island; great Ships may ride in it, but not with fuch fafety as in other Places on this Coast: The Entrance is fair. On the N fide of the Bay, half in, hes a Ledge of Rocks, but they are most of them above Water: This is a tolerable good Bay, because of Gull and Green Islands, which he without it, and cover it from the Winds off Sea; you may fail between them, or between them and the Sea; yet Ships do not care to ride here, but come up to the Bay of Buth, which is not above a good L

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is 6 Ls: Between them are feveral little Coves, as Cafe Fay,

Deadman's Bay, and Freth-water Bay.

This is the cluet Harbour in the Island, as well for the Number of Ships and Smacks employ'd, as also for its being the head Colony on the Main: The Entrance is not above 16c has over from Point to Point N. and S. but bold to the very Rock's Note; and yet the deepeth between the Points is 16 to 1- Facilities in W.N.W.

There are alto two Rocks in the very Entrance, one on each fide; which reduces the Entrance to 95 Fa. or 190 Yards. Being path these Rocks, you may run in boldly, and anchor where you pleale in 4 to 3 Fa. There is indeed a funk Rock behind one of these Rocks; a little within Ring Noon there lies a funk Rock about 50 to 60 Yards from the Shore, but 'tis well known.

You cannot fail in here but with a Windgood at S.W. or much foutherly; then the Wind calls in between the two Hills, till you are beyond the Narrow, and then you have room enough: But it it blows at W.S.W. or farther W. the Wind will blow right out, and then if you will go in, you must be

content to warp in. It is ordinary for Ships not well acquainted here, to mistake the Entrance into this Harbour for another very like it, and which is not above a Mile off of it, call'd Quilliv Vidy, or Kitty Vitty; it looks as fur for a good Harbour as this of St. John but when you come to it, has no Entrance but for small Boats: You may know the Mock-harbour by a bare round Hill call'd Cuckold's Head, and which makes at Sea like a Haycock. Tis just at the S. Point of the Entrance into the Kitty I itts, and to the northward of St. John's; but

your Courle from Cafe Spear will guide you.

From St. John's the next Harbour is call'd Tirbus: There are leveral Points between, but of no Importance; as 1. Cuckold's Head, named to from the Hill above-mention'd. 2. Small Point, dillance from St. John's 2 Miles the Course N E. by N. 3. Sugar-loaf Point, diff. from Small Point half a L. N. by F. 4. Red Head, two Miles N. from Sugar-loaf ; and 5. Logy Bay between them: Then 6. The S. Point of Torbay, diff. from Red Head about . Miles, the Course N. by W. half wellerly. And laftly, From the S. Point of Torbay to the Road or anchoring-place, where the Ships usually he, the Courle is W. by N. there you anchor in 14 fa. opposite to Green's Cove, and dift. from the S. Point almost a L. Being under the N. Point, the Bay is large, above a L over from Point to Point: This N. Point is call'd the Flat Rock.

If you come from the N. about the Point, your Course into the Bay is SW. 'Tis an open wild Road for a Wind off Sca: The distance from St. John's to this Bay is about 2 ! Ls, and

the Courfe N. by E

About half a L. dift. from the Flat Rock Point. lies Red Head by North, the Courle N. by W. and to Black Head by North the diffance is 2 Ls, the Courte N. by W. half W. From the same Has Rock to Cape St. Francis the Comle is

Ifand. 8. Mannaores Bay; and thence at the N. Point of the Bay is, 9. Green Island. 10. Witless Bay. 11. Bay of Bulls.

All these, except the Bay of Bulls and Witless Bay, are finall Harbours, and for small Vessels: They lie generally in a Line upon the Coast from Baline-beat N. by E. to N.N.E. northerly, except Witless Bay, which is faid to lie N.N.W. This Witless Bay lies from Baline-Head about 3 Ls and half. They are all good sishing Harbours, but for Boats only.

Mities Bay lies a large L within Gull Island; great Ships may ride in it, but not with such safety as in other Places on this Coast: The Entrance is fair. On the N. side of the Bay, half in, lies a Ledge of Rocks, but they are most of them above Water: This is a tolerable good Bay, because of Gull and Green Islands, which sie without it, and cover it from the Winds off Sea; you may fail between them, or between them and the Sea; yet Ships do not care to ride here, but come up to the Bay of Bulls, which is not above a good L from it.

From Cape Broyle to the Bay of Bulls it is but 5 Ls, tho there are to many Coves between; the Course is N, by E, half casterly About 1.2 Mile from the S. Head of this Bay lies the Bull Head, the Course N.E. northerly; and the Bay goes in between. Here is good riding and good shelter in 18 to 20 Fa

Here the fishing Admirals keep their Station, and have their Stage on Shore in a Cove just beyond Bread and Cheef Point, on the N. side of the Bay. In going in here you must give this Point a little Birth, because of a sunk Rock, which lies off about half a Cable's length; all the rest of the Bay is bold and steep too.

After you are past the Point, you may go up and anchor in 13 to 14 Fa. bringing John Clav's Hill to bear N.N.W. that depth you have from fide to fide; but the Merchants Ships run up farther into 8 and 9 Fa. Here generally the fishing Fleets are made up, in order to fail for the Streights, which they do by the 15th of September: The Bay is at John Clay's Hill near half a Mile over,

From the Bay of Bulls to Petty Harbour is 3 ½ to 4 Ls, the Courie N.E. by N. all the way a fleep dead Shore; neither Creek or Cove, which is not ordinary on this fide of the Island. Midway on this Shore is the famous Place call'd the Spout, being a hollow Place in the Rocks, which the Sea pouring violently into, and which having a Vent at the top, when the Sea pushes forcibly into it, the Water throws it felf out at the Vent like the Spouts of a Whale, but much greater, to that they are feen a great way oil at Sea.

Petty ILobono is a large Bay a L over at the Entrance N.N.W. and S.S.E. and a L into the place where the Ships ride to fifli; the Entrance goes in N.W.

Two Miles farther N.E. by N. lies Cape Spear, from whence the Coast trends to the N.W. to Bluck-head, and so on to the Harbour of 32. John's The diffance from the Bay of Bulls

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N. E. by N. 3. Sugar-loaf Point, dift. from Small Point half a L. N. by E. 4. Red Head, two Miles N. from Sugar-loaf; and 5. Logy Bay between them: Then 6. The S. Point of Torbay, dift, from Red Head about 4 Miles, the Course N. by W. half westerly. And lastly, From the S. Point of Torbay to the Road or anchoring-place, where the Ships usually lie, the Course is W. by N. there you anchor in 14 Fa. opposite to Green's Cove, and dift. from the S. Point almost a L. Being under the N. Point, the Bay is large, above a L over from Point to Point: This N. Point is call'd the Flat Rock.

If you come from the N. about the Point, your Course into the Bay is SW. 'Tis an open wild Road for a Wind off Sea: The distance from St. John's to this Bay is about 2! Ls, and

the Course N. by E

About half a L. dift. from the Flat Reck Point, lies Red Head by North, the Course N. by W. and to Black Head by North the distance is 2 Ls, the Course N. by W. half W. From the same Flat Rock to Cape St. Francis the Course is N.W. the dist. from Black Head 5 Miles, from the Flat Rock almost 4 Ls.

Cape St. Francis is a whitish Point, low Land; and in the Offing you will be apt to millake the Hill within it for the Cape, which may be dangerous between dark and light. On the S. fide within the Cape is Shoe Cove, where the Fishing-

boats go a Tilting.

N. B. Tilting is, when the Boats go into any Harbour next them to fplit and falt the Fish, when the Wind blowing hard they cannot reach the Places they belong to, and the Fish may endanger spoiling.

In this Cove they have up their Boats 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 also good

fishing when the Weather serves.

E.N.E. off the Cape, in a triangular Position, and at the middle distance of about half a L he several sunken Rocks, as also some great Rocks above Water E. from the Cape. The outmost is about 1! of a Mile, the innermost not ! a Mile from the Shore: There is a good Channel between them for Boats, and even for Ships with care; but as it is nothing saved, and the Channel about it is very fair, 'tis needless to run any such hazard.

There is another Cove on the other fide of the Cape, where Boats go in when the Wind is off Shore; but there's no bear-

ing it with a northerly Wind.

From this Cape to Bell Isle, the Shore trending about inward, the diff, is 5 \(\frac{1}{2}\) Ls, the Course the Reverse of the former Coass, the Land going away S.W. and S.W. by S. This is a pretty large Island about a L from the Shore; and against it on the Main lies Portugal Bay, or Cove, as they call it: Tis a Place in great use both to catch and cure their Fish in the Scaton: It lies due E. of Belle Isle, and runs about 2 Ls or 5 \(\frac{1}{2}\) Miles in, and in most places is a L broad: But the Ships which come to fish, he in a little Cove, which will tide about 5 or 6 Ships

Ships

Sailing Directions for the Island of N

Ships at a time, and their Boats go out in the Offing to fift.

North from Cape St. Francis lies the Island Bacalien, or Bacalco, that is to fay, the Salt-fish Cape: The distance from St. Francis is 9 Ls, from Belle Ifle about 4 Ls, and from Portugal Cove about 8 Ls, the Course N. by E. It is about 2 Ls long, and half a L broad: 'Tis uninhabited, but the Sea is full of Fish, and therefore 'tis much frequented by the Ship's Boats. It is about a L distance from the Main, and the Channel between is fair for Ships of any burden. The Bay of Verds Head, or Green Bay, and the S.W. end of Bacaleo. bear E. by N. and W. by S. one from the other, about 1 1 L alunder; and the diffance from Verds Head to Cape Francis is 8 \(\frac{1}{2}\) Ls due N, and S, and from the Head to the Cove about of a Mile due W. The Entrance into this Cove is not above a Cable's length wide N. and S. The Ships ride in 5 Fa. Water, and yet their Anchors lie in 10 Fa. the Ships veering out their Cables, that they may ride as near their Stages as they can, for the Convenience of Curing and Loading their Fish: And by this means they do not ride above half a Cable's length from the Stages.

It is a Place of great Bufiness and good Fishing, or else no Ships would lie there; for 'tis a very bad Road, and hazardous for Ships riding, and they are fain to feize their Cables one to another, to prevent their Sheering and Yawing when it blows; by which they would be always in danger of running foul of one another; and fometimes having so much Cable an End, they would sheer foul of the Rocks under the Shore: But the

Goodness of the Fishing makes them run all Hazards.

Being obliged to take fuch a length, the Cove will not hold above 7 or 8 Ships; but with all the Inconveniences above, and their getting neither Wood nor Water, they are yet fo eager to go in, and flrive to much to be before one another, that they are ready to quarrel for a Birth in the Cove, because of the great plenty of Fish.

The Ships ride here open to the great Bay of Confumption, from whence a S.W. blowing off the Bay brings in a great

Sea

The Bry of Verds Head is known by another Head call'd Split Point, lying within the Island Bacalco, and shooting out towards the great Bay southerly. Also about Musket-shot from the Head hes Blick Cove, another very good Fishing-place, and full of Stages and Boats; 'tis about half a L from Verds Head, the Course ENF.

by W 'tis a fleep black Point, rocky without fletter, except just when the Wind makes a Weather-shore; neither is there any place of Shelter farther on a star as Carboneva, which is

at least 10 Ls diffant, the Course S.W. and S.W. by S.

There are indeed two little shallow Coves between, fit only for Boats; one hes S.W. call'd Green Cove, distance from Verds Head Bay 4. I.s. a very poor Place for Shelter, tho full of Fish: The other is Common Bay, which lies N. of Carbonera. The distances are various here; Carbonera hes distant from Black Head between 4 and 5. Ls, from Salmon Cove

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Harbour, and is therefore call'd a Bar. When you are near this Ledge, you will fee two white Rocks in the Bank on the Water fide, about a Mile E. below the Beachy Point.

N. B. The Beachy Point reaches for the distance of half a Mile.

Keep on the N. fide next the Beach, and you will have 2 to 3 \(\frac{1}{2}\) Fa. over this Ledge or Bar of Rocks; and as foon as you are over, 5 to 7 Fa. But on the S. end of this Bar, you have not above 7 to 9 Foot Water. The Bar trends S.W. from the two white Rocks quite over, close to the S. Shore, and by that All beyond the Mark you may know exactly where it lies, Bar is clean from fide to fide, and has from 7 to 10 Fa. for above 2 Ls within the Beach.

This Harbour lies in W.S.W. There are fome Islands without it, call'd Harbour Grace Islands; the Entrance is to the northward of those Islands: The other side is foul and

dangerous.

Half a L S W. from Harbour Grace is Bryant's Cove; 'tis good for filling with Boats, but no Ships ule it: The going in is good, the Ground clean, and the Water deep enough; but it is not well thelter'd from Winds off Sea. From hence to Spanish Bay the distance is 2 + Ls, from Harbour Grace Ls, the Courle S.W. and S.S.W. Spanish Bay is a mere Harbour or Shelter for Ships in bad Weather, for neither the Sea or the Land yields any Comfort or Advantage: There are no Fish in the first, or Inhabitants on the last Buy Robert is the fame, and they are to near, that only a fmall Neck of Land parts them; yet by Sea, being round the Point, they are diffant 2 Miles, S. by E. foutherly, and N. by W. northerly. The two Points at the Entrance lie N.W. and S.E. with one another 2 ; Miles afunder; you may turn fair in, and borrow of which fide you will. The Bay lies in E. and W. near 10 Miles up, and no danger but what you ice: It runs up with two Arms, which part about a L within the Point: One goes up W.N.W. the other S.W. the first has the deepest Water; you lie there within the Illand in 9 to 10 Fa. land-lock'd from all Winds.

About 3 or 4 Miles from Bay Robert lies Fort Grave, the Course W.S.W. about the Point This Bay is also deep, and very bold too on every fide. There is Sheeps Cove between, lying on the Starboard fide as you go in; you may moor your Ship in the Cove Head and Stern, riding in 4 to 5 Fa. Water, while your Anchors lie off in 22 Fa. S.W. from you, about a Cable and a quarter length from your Ship: The Reafon is feen before at Bay Verds, viz. Veering out your Cables to come near the Stages.

From Sheeps Cove it is 4 Miles to Cupid's Cove, the Courle S.S.W. It is a finall Place, but there is good riding for a Ship or two at a time: They are both within the Bay of Port Grave, 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, lies N.E. by E. and S.W. by W. about a L alunder. The Head of the Bay of Port Grave lies up

S.S.W. 3 Ls within the Country. Burnt Head and Port Grave lie S.E. by E. and N.W. by W. 3 miles from one another: 'Tis call'd Burut Head, because the

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The Bay of Verds Head is known by another Head call'd Split Point, lying within the Island Bacaleo, and shooting out towards the great Bay foutherly. Also about Musket-shot from the Head hes Black Cove, another very good Fishing-place, and full of Stages and Boats; 'tis about half a L from Verds Head, the Course E.N.E.

From Verds Head to Flambrough Head is about 2 L S.W. by W. 'tis a fleep black Point, rocky without shelter, except just when the Wind makes a Weather-shore; neither is there any place of Shelter farther on a star as Carbonera, which is

at least 10 Ls distant, the Courte S.W. and S.W. by S.

There are indeed two little shallow Coves between, fit only for Boats; one lies S.W. call'd Green Cove, distance from Verds Head Bay 4. I.s., a very poor Place for Shelter, tho still of Fish: The other is Common Bay, which lies N. of Carbonera. The distances are various here; Carbonera lies distant from Black Head between 4 and 5. I.s. from Salmon Cove 9. Ls., and from Green Bay 10 I.s.: The Course from all those Places to Carbonera is S.W. and S.W. by S.

Green Bay is a Lover between the Heads, there is good Salmon-fifting in it, as also in Salmon Cove; the distance from Carbonera is 9 Miles. The S. end of Carbonera is low, and bas a Fort, with a Battery of 20 Guns upon it, made by the Merchants Ships in time of the late War with France. The Harbour of Carbonera is bold, and so is the Island; but there are Rocks under Water, between the Island and the Main. This is a very good Harbour for the Ships; and for taking great Quantities of Fish also: The Entrance is a Mile broad, to that you have fair turning either in or out. You have very good riding in 5 to 8 Fa and deeper if you think sit, a L. withm the River.

To the northward of Cinhonera are two Coves, where the Inhabitants keep Boats and Stages for fifting, viz. Clown's Cove and Crocker's Cove; but they are not capable of receiving large Ships. The Harbour of Carbonera lies in W.S.W. dift. from Harbour Grace about 3 Miles; they lie S.S.E. and N.N.W. about a Mile broad.

Harbour Grace is a deep Entrance, it lies in from the Opening W S W, alto, and runs up the Country about 8 to 10 Miles: You may turn into the Bay all over it, from fide to fide, and the like you may do in Carbonera. There is a Rock, or Parcel of Rocks, in the Middle of the Channel, call'd the Saleager; but you go on any fide, for it is bold too: But there is another Rock call'd Long Harry, without the other on the N. Shore, where they pais on one fide, viz. between it and the Main only with Boats, because it is narrow, tho deep enough for Ships. Both these Rocks are very high above Water, to that they are casily seen, and therefore not dangerous at all. The Ships ride within a high Beach very secure, and you keep to the N. Shore, because of a Bar or Ledge of Rocks which shoots over to the S. side from the N. quite thwart the

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Burnt Head and Port Grave lie S.E. by E. and N.W. by W. 3 miles from one another: 'Tis call'd Burnt Head, because the Trees which were upon it are burnt down; and it is no more but the S. Point of the Bay of the Port Grave. Most of these Coves are uninhabited.

S.S.W. 3 Ls within the Country.

One L farther on the same Course S. by W. lies the Point of Brigus, a high ragged Cape. Brigus is a narrow Bay, but deep: The Road goes in S.W. by W. and W.S.W. about half a L, where you anchor on the N. side. Here you have some Inhabitants and Plantations, but not many: It lies quite in the Bottom of the great Bay of Consimption; and being so far in, there are sew except small Ships go so far up.

From Brigus to Colliers Bay is near a L, the Course S.S.W. as before, an uninhabited fortaken place; and thence to Salmon Pool 2. Miles more, likewise desolate. Here is but two Foot Water when the Tide is out, and but 2 Foot more when it is in: So that it is really of no use, and scarce worth naming. About 2 Miles from thence lies Harbon Main; there is a Plantation on Shore, and good fishing in the Ossing; but, as before, 'tis out of the way, and Ships ieldom go in so far.

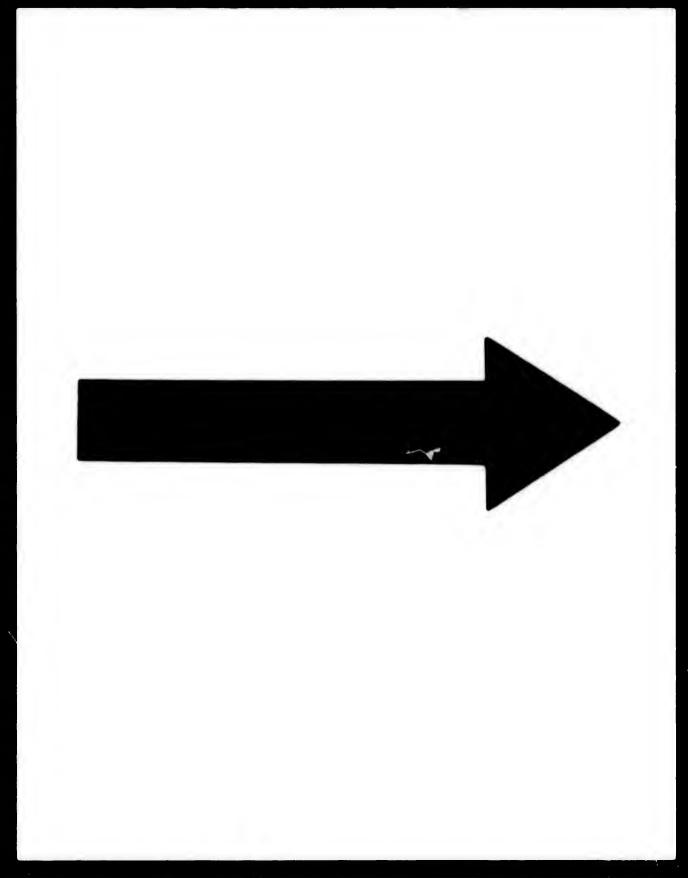
From Harbour Main the next Place is Holy Road; the dift. from Burnt Head is 3 1 Ls, and from Harbour Main 2 Miles: The Courle from the last is S.E. by S. From hence the Land, which bore in before to the Bottom of the Bay of Confumption S.W. trends away now easterly towards Belle Isle. This is a good Harbour, tho but little Business: There is 11 by Water in the Road, and clean Ground, but 'tis too far in.

The Coast now returns on the other fide of Confinguish Bay, and the Places and Diffances are as follow.

From Verds Head to Split Point half a L., F. N.E.

From Splin Point to the Point of the Graves 2 Ls, N N.W.

From the Point of the Grates to the N. or N.W. end of the Island Racalien, 4, to 5 Ls E. by S. Between the last lies Break-heart Point trending about two Points in a different Course, first W. by N. then W. by S. then W. S.W. and last



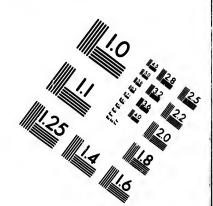
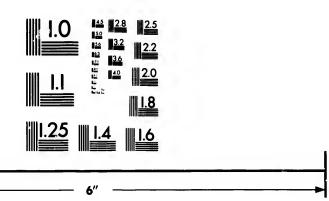


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last W. by S. Off the Land from the Point lies a Ledge of

Rocks, but they are above Water.

Two Ls from Break-heart Point lies Sherwick, being the N. Point of Old Pelican or Perlican Bay, the Course S.W. by To the fouthward of Break-heart Point lies Scurvy Island, a little from the Shore; between which and Sherwick Point runs in S. by E. a deep Bay about 3 quarters of a Mile, but it is not of much use, nor do I find any Name it is known by. Sherwick Point is bold too: There is an Island off of the There is no Channel between the Illand and the Point, tho the Channel feems fair enough, but the Ground is foul, and a Shoal lies from it to the Land; but on the S. fide of the Island the Channel is good, and being in you may anchor in 4 to 5 Fa.

N, B. The Place is not without Dangers when you are in; for there is a Rock even with the Water, and some Rocks

quite under Water about the middle of the Bay.

Old Perlican is a wild Road, with the Wind at W.N.W. the Ground alfo is fo rocky, that you must buoy your Cables: the Boatsgo up a great way to fill, and there are some Inhabitants on shore, but not many.

Seven Ls from Old Perlican lies Sillee Cove, the Course is W.S.W. 'tis but a very forry Road for good Ships, nor is it much frequented. From hence to New Perlican the Course is W.S.W. dift. from Sillee Cove 1 L, and from Old Perlican ELs. New Perlican is a very noted Harbour, and you may ride in it Land-lock'd from all Winds, and with 5 to 10 Fa. Water.

It is bold and large going in, so that if you can see to set 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 almost 2 miles wide, and has about 20 Fa. Water in the first Opening; but as it goes in, 'tis narrower and the Water shoaler. As you lie in first W.S.W. and afterward run up to the Norhward in a Bight, you are abundantly fatisfy'd for the Trouble; for there you lie Land-lock'd from all Winds: The breadth also is sufficient. for'tis half a Mile broad in the Road. to that you may turn in or out, and anchor where and in what depth you pleafe, from 4 to 12 or 14 Fa. and very good Ground.

From New Perlican 'tis 5 Ls over to Randam Head; they lie N.W. and S.E. one from the other. This Randam is a Bay with a River, and in it are feveral Creeks and little Harbours, which they call Coves. Randam and Smith Sound are both one, or come into one; yet they go in two ways, and 'tis o or 10 Ls in before they join: There is a little Island at the Head, where they meet, where is 4 to 5 Fa. but at the Passage thro' there is not above 2 Fa. and something less than a mile broad Smith's Sound runs in W.S.W.

From this Coast likewise goes another deep Inlet call'd Trinity Harbour, which reaches in 15 Ls from Bonaventure Port to Tickle Harbour.

There is another Bay also farther N. call'd Bay Bulls, which runs in fo far W, that it is not above the distance of 2 miles over Land from thence to Placentia Bay, the great Inlet on the other or S.W. fide of the Island; some of the Islands in

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Places, and clean Ground for Ships to ride in. Without these Coves is a Headland which teems like an Island called Fox's Island; 'tis join'd to the Main by a Ridge of Beach. Within this runs in a Bay called Robin Flood's Bay, where small Ships ride often, and fish to good Advantage.

Trinity Harbour is the best and largest in all New foundland; it is sull of Creeks and Coves, Inlets and Openings, where Thousands of Ships might lie securely, all entirely Land-lock'd from every Wind, not one Point open; it is bold too on every

fide, and you may turn 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 fishing Admiral Stage lies: This Shoal is call'd the Muscle Bank; you must shun this upon entring the Bay; but 'tis very easy to do, for it shoots over from the Point behind the little Island on your Larboard side going in, and reaches over N.W. only about a third of the Arm: so that being within the Bank, you may edge over close to the S. Shore, and give the N. side a large Birth: and thus you will go clear of it all.

It would be too tedious to describe all the Coves and Roads in this excellent Harbour: In the S.W. Arm there is Harbour within Harbour, and Cove within Cove, like Chesapeak Bay in Virginia; and as for the N.W. Arm, it is able to hold 500 Sail of Ships in the open Road of it, besides the Coves, &c. on every side of it: beyond that, is a large Cove or Armcall'd God Almighty's Cove, where there is room for 3 or 400 Ships more, in clean Ground, and good Shelter, so that nothing can hurt them. There are several other places where Ships ride with all possible Security, in most of which you have from 4 to 14 Fa. within 2 or 3 Boats length of the Shore. The Tide rises in this Harbour not above 4 Foot, so that the Stream is always gentle and safe.

From the Horsehops, the N. Point of Trinity Harbour, to the S. Point of Catalina Bay, the Dift is 5 Ls, and the Course N by E. and N.E. There are some Coves between, as Green Bay, Ragged Harbour, and such like small places; this last

is a part of Catalina Bay.

There is Catalina Bay and Catalina Harbour: the S: and N. Heads of the Bay are 3 Ls afunder N.N.E. and S.S.W. and between those are Ragged Harbour and Catalina Harbour.

'Tis called Ragged Harbour, from the many craggy Rocks which lie 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 acquainted, and very careful too, for 'tis

throng'd with Rocks and Dangers on every side.

If you'll venture in, you must go so far to the northward of all those Rocks and Islands, as till you open the Harbour it self before you; then you may run in between the round Island which lies close to the Main, and a great black Rock off the N. end of all the Ragged Islands, and fail in there till you come to the middle of them, which will be to seaward from you: then come to an Anchor.

N. B. There is good fresh Water at the Head of the Har-

bour, but no People.

N. from this Harbour lies Catalina Harbour, dist from the

fo that you may turn in or out, and anchor where and in what depth you please, from 4 to 12 or 14 Fa. and very good Ground.

From New Perlican 'tis 5 Ls over to Randam Head; they lie N.W. and S.E. one from the other. This Randam is a Bay with a River, and in it are feveral Creeks and little Harbours, which they call Coves. Randam 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 Island at the Head, where they meet, where is 4 to 5 Fa. but at the Passage thro' there is not above 2 Fa. and something less than a mile broad Smith's Sound runs in W.S.W.

From this Coast likewise goes another deep Inlet call'd Trinity Harbour, which reaches in 15 Ls from Bonaventure Port to Tickle Harbour.

There is another Bay also farther N. call'd Bay Bulls, which runs in so far W. that it is not above the distance of 2 miles over Land from thence to Placentia Bay, the great Inlet on the other or S.W. side of the Island; some of the Islands in which Bay are 9 to 10 Ls long each, and 5 to 6 miles broad: they lie N.W. and S.E.

Bonaventure Port is distant from Bonaventure Head two miles or more N.W. and S.E. being at a mile's distance from the Head in your Course, then you open the Port or Harbour, which goes in N.W. by N. about a mile to the Admiral's Stage.

The Port lies behind two small Islands, and the Passage goes in between them; but you may go on either side, and between them and the Main, especially with a large Wind to lead it thro'. You have 4 to 5 Fa in the Passage, and no Dangers but what are apparent. When you are in, you have the same Depth in the Road, and very good anchoring Ground: you have also a secure Hole for Boats to run into in bad Weather. Behind a Point to the N. of the Admiral's Stage, 'tis as smooth as a Pond. As you go in, you leave the Planter's House on your Larboard side. Above 100 large Boats may lie in it at a time, and all in the utmost Safety.

On the W. fide of this Harbour is Gull Island; they used formerly to fish there, but of late they do not, or but little. From the Island the Harbour goes near a mile farther up North. There are several Islands also which lie in the Offing, W. from the Head; one is called Green Island, dist. from the Port two Ls, the Course S.S.W. You may see this Island in clear Weather as soon as you come out of Trinity Harbour. There is also another nameless Island without, the dist. from the Port is 4 to 5 miles, in the same Course, or S.W. by S.

From Bonaventure Head to the N. Point of Trinity Harbour is 3 Ls and a half, the Course E.N.E. but to the Harbour of Trinity it self it is but 2 Ls, and they lie N E. by N. and S.E. by S. There are several Coves and small Bays between, but not worth notice.

Between the Horsebope and Trinity Harbour are two fishing Places, where Ships used to come; one is English Harbour, and the other is Salmon Cove: they lie W.N.W. and N.W. the dist. between them is not above ‡ L. they are both good fishing

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N. B. There is good fresh Water at the Head of the Harbour, but no People.

N. from this Harbour lies Catalina Harbour, dist from the S. Point of Catalina Bay 2 Ls, and from Ragg d Harbour 2 Miles: This is also a good fase Harbour, from 3 to 8 Fa. gradual Soundings. There is a little Island 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 Passage, tho the Channel is not above a Cable's length broad.

If you go without the Island, you must go to the castward giving it a small Birth, and so keep the Fair Way Mid-Channel into the Place, holding it so for a Mile. From the S. Point of the Harbour E.N.E. lies a Shoal, but you may go on any side of it, and know it by the breaking of the Sea upon it.

N.N.E. of this Harbour lies Little Catalina: all the way to it you have from 7 to 10 Fa. and then lies the N. Head of the whole Bay N.E. eafterly from Catalina Harbour. The distance of Little Catalina is from the Harbour half a L. and the dist. of the N. Head of the Bay is half a League.

From the faid North Head of Catalina Bay, the next Place of Note is Flower's Point, the dist from the Head is 1 ± L, and without the Point, 5 Miles off to Sea, are Flower's Rocks, a very dangerous place; they lie lunk under Water, and are only known by the Sea breaking upon them, which in stormy Weather it does with great Violence: they are but about half a L off Shore, tho 5 miles from the Point. There is a fair Channel between Flower's Point and the lunk Rocks, any ship may go thro': The Mark to go without them 3 to keep Cape Larjan, as our Sailors call it, or Cape Largent, open of Bird Island: and that carries you clear to the castward of them.

N. B. Some will have it that those Rocks lie 2 to 3 Ls off Shoar, but Experience has discover'd the contrary.

Three miles and a half from Flower's Point lies the aforesaid Bird Island, the Course is N. by W. On the W. side of the Island is a large Bay, and there is also a Creek or Arm of a River within the S. Point of the Main, which runs into the Bay from the W.S.W. a good dist. in the Country: and here Ships ride upon any soul Weather with great Sasety. There is

another

Sailing Directions for the Ille

another Creek also behind some Rocks, which lie above Water within the Bay. The dist. of the Bird Islands from Cape Larjan is between 2 and 3 Miles N. sterly; and from Flowers Point to the Cape 6 Miles: the first lies N. half E. the second N. half W. Just off of the Cape lies a great Rock above Water.

N.N.W. from the Cape goes in a finall but deep Bay, where fome Veffels go in to fish, and beyond it in the same Course es Spiller's Point, a high steep Point, bold too, and seen a gi at way: The dift. from Cape Larjan is one small L. A L. ther in the same Course is Cape Bonavista. Between these 2 Capes runs in a large deep Bay, which Strangers are apt to miftake for the Bay of Bonavista; it is not above 2 Miles and a half over Land from the bottom of the Bay to the Port of Bonavifla, but 'tis more than 2 Ls by Sea, being about a narrow Neck of Land, befides about a Musket-shot over Red Head Bay.

Cape Bonavista is a bluff bold Head: about three quarters of a Mile from it N. by W. lies Gull Island, or the Island of Gulls, it is a high Rock, and highest in the middle, like a broad brim'd Hat, and makes at Sea like a Flower-de-Luce; 'tis feen 5 or 6 Ls off in clear Weather. N.E. from this Island lies a Ledge or Riff under Water, where the Boats ordinarily fish: there is 10 Fa. Water on it; so it is not mention'd to warn the Sailors of any Danger, but to guide them to their Business.

Cape Bonavista or Port Bonavista are different places, and lie S.W. and N.E. 5 Miles from one another, rather more: if you are bound to the Port, your Course is from Gull Island, and the Cape, leaving the Island on the W. side towards the Main, the Channel between being both narrow and foul: But between Green Island and Stone Island 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 Island to the Westward, and so run out S.W. till you open the Harbour of Bonavista sair in view, and till you are past a Head of Land called Moses's Point: then you are to the southward of the Rocks called the Sweers, where you may ride in 5 to 11 Fa. but you cannot go to the northward of them.

If you ride under the Sweers, you must always lie close a. board them, with one Anchor out to Sea S.W. from you, and one Head-fast ashore upon the Rocks; or else come to an anchor on the N.W. fide, for the westerly Winds blow right in upon the Road.

N.B. The Flood runs generally to the northward here, and upon all this part of the Coast, especially farther to the northward.

About Bonavista and the Coast adjacent, a W.N.W. Moon makes full Sea, and the highest Tides.

Cape Bonavista lies in Lat. 49 d. 10 m. N.

Here is good fishing upon all this part of the Coast; and in Red Head Bay and the Harbour of Bonavista there are Stages and good fishing, but no farther N. at least our Ships go no farther N.

Here it is needful to bring in, as in its most proper place, the Situation, Depths, Latitudes, &c. of those famous Sands called the Banks of Newfoundland, which some imagine are Shoals: and to indeed they are, compar'd with the Bottomless

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quently, we proceed to give an Account of it; but as we have had no Survey taken fince of the whole Island, or of the French part which the English did not possels, 'tis sufficient to account for our own known Ports, and leave the rest to a more exact Survey.

Off of Cape Race, dift. near 20 Ls S.E. lies a number of dangerous Rocks called the Virgins; they are above Water indeed, but not very high; fome are flat with the Waters Edge, and which is still worse, some are quite under Water: Their Lat. is about 46 d. 30 m. Some Pilots of good Judgment differ as well in their Lat. as in their Situation with respect to the Land: For example, some insist they are but in Lat. 46 d. and fay they have taken an exact Observation of it; and that they are fituate at the dist. of 17 to 18 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 Coast to the W. the first place we meet with is Mistaken Point, called to, because when Sailors first make the Island of Newfoundland from the fouthward, this Point is often miltaken for Cape Race: it is dist, from the true Cape Race about 2 Ls, the Course to it is W.N.W.

Five Ls from this Point in the same Course is the Entrance into the Harbour of Trepass; the castward Point is called Powles: there is a deep Bay on the back of the Point castward called Powles, and a high Ridge of Beach between that and the Road; fo that in the Offing you fee the Masts 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 sometimes Mountains high as the Winds may be, and no Current to help you out.

But if you are bound in for Trepassi, stand over W. towards Cape Pine, till you see the Harbour fair open; and then run right in N. by E. according as you have the Wind Cape Pnie is a bold Shore, and lafe: you may keep along by it at pleasure: The Harbour of Trepalli is very large, has fair Shoalings from 8 to 5 Fa. upon your going in; and when you turn in or out, you may stand with either Shore into 3 to 3 Fa. without Danger: 'tis also very well secur'd, and good Ground to anchor in.

Leaving these Ports, which lie N.W. from Cape Race to the N. in your Course, if you are bound westward, stand directly over to Cape Pine; the Course is W. 1. N. tho by Compass you must steer W. by N. because of the Variation W. The dist. between the Capes is near 8 Ls.

N. B. The Variation here is between 22 and 23 d. westerly

and holds fo all along this Coast.

The Bays and Harbours above-named, which lie in northerly between those Capes, are few of them, except that of Trepassi, fit for great Ships; the Shore also is foul, full of funken Rocks, and very dangerous: Besides, the Seas are very tempestuous on this Coast, by reason of the constant southerly Winds, which almost blow Trade on the Coast all the fishing Scalon; so that the Seas come tumbling in upon them so forcibly, that there is no riding but in places very well fecur'd:

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Here it is needful to bring in, as in its most proper place, the Situation, Depths, Latitudes, &c. of those famous Sands called the Banks of Newfoundland, which some imagine are Shoals; and so indeed they are, compar'd with the Bottomless Ocean about them: we find, upon exact Discovery, that the usual Depth of Water upon those Banks is from 80 to 110 Fa. and that to the eastward and northward there is frequently no Bottom at 300 Fa.

The Opinion of the best Judges concerning these Banks is

thus.

1. The leffer Bank, called the False Bank, they say is narrow; that there is no less than 80 Fa. upon it, and so on to 110 Fa. and that the dist. of it from the main Bank is 30 Ls. Some by their reckoning make it 120 Ls from Newsjoundland, others make it not so much by 27 Ls: but they all agree in the Depth, and of 80 Fa. being the least 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 false Bank is

from the Shore.

N. B. They fay also there is a Hole or open deep place in the midst 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 some question the Fact, and say they have sounded 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 against Cape Baltard: others fay, that the farther southerly on the Bank the shoaler the Water, and that the Bank rises at the end 24 Fa. that this is in the Lat. of Cape Race; and that it is deeper more northerly. For these things every curious Mariner will examine by his own Soundings, and then compare it with the Judgment of others, and govern himself as he finds it.

We now come back to Cape Race, which as I faid is the most Scassward Point of Land in the whole Island. The S. part of the Island, W. or S.W. from this Cape, was possest by the English before the late War, as it is still, and conse-

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But if you happen to be driven to the northward of your Course, then remember the failing Direction for the Harbour of Trepassi, and run along the Coast N. by E. from Cape Pine; the Harbour lies in the bottom of the Gulph, about 4 Ls. dist. from the Cape.

In failing for Trepass, take great care that you do not mistake another small Inlet for it, call'd Mutton Bay, and lying not above half a L from it, and which, as you come from the eastward, makes like it: therefore, as before directed, 'tis best to keep over to this Shore, and steer to a place called Sailing Cove, which lies about 2 Ls to the N. of Cape Pine.

In this Course, and going forward at the dist. of about half a Mile from the Shore, you will fee the Harbour of Trepassi fairly open, and have *Point Powles*, which is the E.S.E. Point of the Entrance, bearing NE. from you.

Off of the Point there are some 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 usually flows 5 Foot on the flack Tides, and 7 on the Spring; but even that varies, as the Winds lie either off Shore or off Sea.

From Cape Pine the Land goes rounding off E. and W. a Point more or less, to the opening of the great Bay called St. Mary's Bay.

N. B. You must allow no less than two whole Points upon this Coast for the Variation of the Compais; so that when we fay the Course is W. by N. as it is here, you are suppoled to steer 2 Points more to the N. or to the W. as your Voyage may lie: and fo in this Course, instead of W. by N. you steer N.W. by W.

The Entrance into this Bay is very large, and goes in a The diff. between the length proportion'd to its breadth. Capes is at least 11 Ls; and the depth from Blackhead (which is but half a L from Cape Pine) to the Harbour of St. Mary's, on the E. fide near the bottom of the Bay, is 13 and a half to 14 Is; it goes N. in, and has feveral Harbours and Coves within it on either fide: there are also several good fishing Banks or Shoals within the Bay, especially far in; but they are so much out of the way, and the Fishing is so good in the Offing upon feveral small Banks to the fourhward and westward, that this part is very little frequented: befides, as the foutherly Winds blow to long upon this Coast during all the fishing Months, 'tis hard venturing into fuch d.ep Bays, which lie in due N. because 'tis so difficult working down again, to get out into the open Sea.

S.E. from Cape St. Mary, in the Fair Way cross the Bay, and at the dist. of about a Mile, there are several Rocks in the Sea, but they are fair above Water; the French call them La Vache et le Torrau, 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 avoid them, keep a good Look out; and when you see the Bull and Cow, take care of their Horns, that is of the Rocks

you do not fee, being warn'd by those you do fee.

There are likewise some sunk Rocks in the other Course, viz. off of the Point due S. of the Cape; they lie about the dist. of eight Miles; as also S.W. half W. from the Cape St. Mary, being in the Course from Cape St. Mary to the Bay of Placentia

From the west side of Cape St. Mary immediately opens the great Bay of Placentia; the opposite Land is called Cape Judas, dist. from Cape St. Mary 11 ½ Ls, the Course N.W. by the Compass, but allowing for the Variation of 2 Points, 'tis N.N.W. This Bay merits a full and particular Description; but as our English Navigation went no farther this way before the last Cession of this Country to England, and hardly so far, our Accounts are not so perfect as we expect they will be; so we omit them, till the new Suvey shall be made, and ex-

act Charts drawn with good Authority.

When this Survey, which we hear is now taking by the publick Direction, shall be made, 'tis hoped an exact Account will be taken, not of this Bay only, but of all the other parts of the Island, as well the E. side which is in the Possession of the English, as of the N. part also, viz. the Passage of Bell Isle, and the S. and E. Coast of the Terra de Labradore up N. to the Entrance into the Streights of Hudson's Bay, to which we refer for a farther Account of all those wild and unpractised Parts, and perhaps also for the Entrance into the River of Canada, of which the best Accounts yet given are very imperfect, and the want of which was fatal to the English in the Reign of the late Queen Anne, when not only a well designed Expedition miscarry'd, but many Ships were lost, by the meer want of Pilotage, and a true Knowledge of the Coast.

All the W. Coast of Newfoundland lies upon the Inland Sea

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100 Ls up the Channel. In most places it is so deep, that they have no Soundings even at 300 Fa. fo that Ships cannot

come to an Anchor, whatever Distress they are in.

On the N. Shore of this Bay, opposite to the Island last mention'd, there comes in a pretty large River, which coming out of a mountainous Country, brings a great Fresh of Water with it, tho it be not of a very long Courfe. In the Mouth of this River is a good Harbour, and you may anchor in 22 to 23 Fa. 'tis call'd Port de Ours, or the Haven of Bears, from the great Number of Bears feen there: But this Harbour is too much out of the way.

Likewise towards the N. Part of the Coast of the W. side of Newfoundland, there is another Inlet called the Great Bay;

but this also we have yet no perfect Account of.

On the S. part of the Bay, where the Coast is English, lies the Island of St. John, opposite to the N. Coast of the Country mention'd already, called Accadia or New Scotland. But as this part is yet but thinly inhabited, having been in the Posselfion of the English but fince the Peace of Vtrecht, to neither is the Coast taken into our Cognizance yet, nor are the Advantages of its bordring to far together upon the Gulph enquir'd into, at least not so as perhaps 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 Coast belongs to the English, and lies on that fide of the Gulph and River of Canada for near 120 Ls, including the Windings of the Shore, which are there very large.

It remains now to give Directions for finding, and failing to the great Filling Banks of Newfoundland, which bring fo great a number of Ships together from fuch remote Parts of

the World every year to fish.

In general we are to take notice, that off of the E. or rather S.E. Coast of the main Island of Newfoundland, dist. about 30 to 40 Ls, and in some places much more, there lies a large Bank in the Sea, and stretching N. and S. a monstrous length: it is called a Bank or Shoal, because it is so, compar'd to the great depth of the Bottomless Ocean on all Parts about it; otherwife 'tis far from Shoal, the ordinary mean depth upon it being 100 Fa. in some places more, and no where less than 80. as you shall see presently.

Without the great 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. likewife, as the great Bank does, tho not above half fo long, and not one fifth to broad; and near the fame dift. from the great Bank, as the great Bank is from the Land: likewise off of the S. Coast of the Island, there are 4 other Banks, all

fuited to the faine profitable Affair of Fishing.

Some Charts make these sour Banks, lying S. of the Island, all join with one another, and then with the Grand Bank, making the finaller Banks spit out to the westward, 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 19 d. to 39 d. and very near as much in Longit But 'ris evifar, our Accouras are not to perfect as we expect they will be; to we omit them, till the new Suvey shall be made, and ex-

act Charts drawn with good Authority.

When this Survey, which we hear is now taking by the publick Direction, shall be made, 'tis hoped an exact Account will be taken, not of this Bay only, but of all the other parts of the Island, as well the E. side which is in the Possession of the English, as of the N. part also, viz. the Passage of Bell Isle, and the S. and E. Coast of the Terra de Labradore up N. to the Entrance into the Streights of Hudson's Bay, to which we refer for a farther Account of all those wild and unpractised Parts, and perhaps also for the Entrance into the River of Canada, of which the best Accounts yet given are very imperfect, and the want of which was satal to the English in the Reign of the late Queen Inne, when not only a well designed Expedition miscarry'd, but many Ships were lost, by the meer want of Pilotage, and a true Knowledge of the Coast.

All the W. Coast of Newfoundland lies upon the Inland Sea or Gulph of St. Lawrence, which is indeed the Mouth of the great River of Canada, tho it be in that place near 200 Ls over from N. to S. There are on that side a great many Harbours and Bays, and Inlets of the Sea, perfectly adapted to the publick Use of Mankind in general, and for Fishing espe-

cially.

The Shore on this fide trends away N. by E. and N.N.E. from opposite to the N.E. end of the Island Blasques to the Point, making the Passage at Bell Isle, from the Lat. 47 is 0.52d. 15 me or thereabouts. The Island in other Parts comes down S. to 46 d. 47 m. viz. at Cape Race, or Cape Pine, but falls off on the W. side as above.

On this W. fide there is one very fair Harbour, and which is still much frequented by the *French*, tho they have not the Possession, viz. St. Gregory's Bay: 'tis large enough to receive any Number of Ships, being well cover'd from southerly, northerly, and westerly Winds; but it is little used by the English, neither have we any business worth naming on that side.

There are feveral Islands also in this Gulph, and some very confiderable, at least for their Dimensions, especially that of Anticosti, or the Assumption, possess by the French; but little use is made of it in Navigation, whatever there is in Planting. There are no Anchoring places as we find upon the E. fides, but on the S. fide there are 2 large Bays, in which Ships put in for Shelter in NW. Winds as they pals up the River for Canada, and where they are oblig'd fometimes to winter: On the N. fide of this Ifland there are feveral large Inlets and Harbours; but as we have no exact Survey, we can give no Account of them to be depended upon; only they tell us there are no Shoals to fear, the Depth of Water being fo great, close to the Shore, even makes it dangerous putting in to any of their In this N. fide, the Channel of the River Canada is to wide, that in the Fair Way you cannot fee from the Masthead to the Shore on either fide; and it continues fo for near

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Some Charts make these four Banks, lying S. of the Island. all join with one another, and then with the Grand Bank. making the finaller Banks spit out to the westward, 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 49 d. to 39 d. and very near as much in Longit. But 'tis evident there are large Channels between them, and those Channels carrying a great depth of Water from 120 to 200 Fa. or more, and tome of them 20 to 40 Ls afunder: fo that we can no more question their being separate Sands.

In like manner there are differing Accounts given as well of the Situation as of the Dimensions of the grand Bank, and of the falle Bank lying without it; which Accounts we shall, as near as we can, bring to a Certainty, that the Navigation of these useful Places may not be perplex'd any longer, and the Trade as well as Fishing interrupted, as has been the Case, by Mariners keeping a wrong Reckoning, and thereby fometimes losing their Veyage, to the great Disappointment of their

Owners and Merchants also.

One of the most experienced * Masters using this Trade, fpeaking of the Banks, tells us, after describing the Grand Bank, that the False Bank is but narrow, and has 80 to 110 Fa. Water on it; That it is 30 Ls from the Grand Bank, and the Grand Bank 30 from the Main; and, That the Grand Bank is 33 Ls over: And this he affures us he measured with the utmost Exactness.

Another antient Newfoundland Master † casts up the whole as above, namely, the Distances and Dimensions of the Channels and the Bank; and fays, the False Bank is 120 Ls dift. due E. from the Illand of Newfoundland, which is 27 Ls more than the other makes it. He agrees with the other as to the depths of Water, and that 80 Fa. is the shoalest on the False Bank.

The fame Artists also dispute the Shoalings upon the Grand Bank; and several others differ likewise: One says there are Deeps and wide Places, which run into the Grand Bank; particularly one which runs E. and W. 13 Ls, and almost as much N. and S. where there are no Soundings, and no Bortom at 120 Fa. or 200, fay others: And another Pilot fays he founded over the whole Bank, and could find no fuch place.

Sailing Directions for the Burm

The same Man says, that the farther southerly, the shoaler the Water upon the Grand Bank; that in the Latitude of Cape Race it is shoaler by 24 Fa. than any where else 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 greatest Service to have these Banks thorowly survey'd, and their Extents, Lengths and Breadths, Longitude, Latitude, Depths and Shoalings exactly laid down; so till that is done, we think it may be useful to give the best Information we can to all that are bound to the Coast, that they may not be deceived, as some 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 those Seas.

" On the 25th of June, 1715, fays he, at 8 in the Mor-" ning, being upon a fair Observation in Lat. 48 d. 44 m. ha-" ving been just a Month in our Passage from Plymouth " Sound, and being bound to St. John's Harbour in New-" foundland, we brought to, and founded, where we had 92 " Fa. fine white Sand; by which I concluded we were just " 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 Course good so 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 least that we were up-" on the shoalest part of it; because having sail'd thus about " 34 Miles upon the fame Course exactly, and then sounded " a third time, we had deeper Water again, viz. 84 Fa. still " very fine white Sand, but mixt with pieces of a flaty fort of

" This every one knows is the very Mark usually taken " of going off from the Bank on the W. fide towards the " Island; and accordingly after we had run 26 Miles more " upon a W. by S. half S. Courle as before, we founded a fourth "time, and had 100 Fa. ouzy Ground, with some 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 so; for in " running 15 Ls more we saw Land at about 4 Ls dist. being " the high Lands about St. John's Harbour, whither we were " bound."

And here 'tis manifest there is a great Error in most of our Charts now in use, which lay down this Bank at so great a distance from the Shore of Newfoundland as they do; seeing by this Observation here was no more than 35 L from the outer Edge of the Bank in 92 Fa. when they first sounded, to St. John'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 Newfoundland off of St. John's, whereas 'tis ufually call'd 30, as we have faid above, from the faid inner Edge of the Bank to the Main.

N. B. Also the breadth of the Bank is falsly calculated, it

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Guide, a true Pilot for the Bank; for as you never miss him there, so you never find him off of the Bank. They are often seen in Flocks, but ordinarily only two together, and never alone: the Seamen are too well acquainted with them to need any Description of them.

N. B. The distance E and W. from Cape Spear, a Point of Land about 3 or 4 Miles S.E. by S. from St. John's in Newfoundland, to the Lizard, or Landsend of England, is 43 d. of Longitude, which makes 860 Ls.

N. B. Observe also that this Reckoning is made by marking the Log-line at 50 Foot between every Knot, according to Mr. Norwood's Experiments, and those of several other eminent Artists, and not according to the old way of marking 42 Foot between each Knot; which 'tis very plain is erroneous.

Sailing Directions for the Islands of Burmudas.

HE Situation of the Islands of Burmudas, with the feveral Parts of the World from which ordinarily Ships sail thither, is thus:

With the Landsend of England W.S.W. and E.N.E. dist. about 1150 Ls.

With Cape Clear on the Coast of Ireland E. by N. and W. by S. dist. 1100 Ls.

With Cape St. Vincent W. half S. and E. half N. dist. 1100 Ls. With the W. side of the Great Bank of Newfoundland S.W. and N.E.

With Boston Harbour in New England E.S.E. and W.N.W. With the Capes of Virginia N.W. and S.E. dist. 240 Ls. With the Island Porto Rico on the E. end of Hispaniola due

N. and S.
With the Island of Barbadoes N. by W. and S. by E.

With the Gulph of Florida W. by S. and E. by N. With Alpley River in Carolina due E. and W. dist. 280 Ls. The Burmudas lie in Lat. 32 d. 25 m. stretching out N.E. and S.W. 15 Ls. All the Shore of the whole Range of Islands is surrounded with Rocks, so that it is very dangerous coming near them in the night or in dark Weather; abundance of those Rocks lying at a great distance from the Islands, most of them cover'd at high and dry at low Water: If you are near them in a small Boat, as Boats often go among them in fair Weather, they may be seen at high Water. N. B. The Tide does not flow here above 5 Foot.

At the N.E. Point of the main Island there are so many small Islands and Rocks, and they lie so strangely enclosing that part of the Island, that they form of themselves the great Bay call'd Southampton Bay, which is the best Harbour in the Place.

From the same N.E. Point there is an Arm of Land stretching out with a Hook, so that it almost meets with another Point of Land, and makes Harrington Sound, an excellent Harbour, and able to receive a Fleet of Ships, having 7 to 8 Fa. and very secure riding, shelter'd from all Winds; and there is 3 to 4 Fa. in the Entrance.

On the S. fide there is likewise another Arm or Hook, which is fenc'd by several Islands reaching to that part call'd Spanish

"Hand; and accordingly after we had run 26 Miles more upon a W. by S. half S. Course as before, we sounded a sourth time, and had 100 Fa. ouzy Ground, with some of the fame slaty 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 sound it so; for in running 15 Ls more we saw Land at about 4½ Ls dist. being the high Lands about St. John's Harbour, whither we were bound."

And here 'tis manifest there is a great Error in most of our Charts now in use, which lay down this Bank at so great a distance from the Shore of Newfoundland as they do; seeing by this Observation here was no more than 35 L from the outer Edge of the Bank in 92 Fa. when they first sounded, to St. John'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 Newfoundland off of St. John's, whereas 'tis usually call'd 30, as we have said above, from the said inner Edge of the Bank to the Main.

N. B. Also the breadth of the Bank is falfly calculated, it being evident that its breadth between Lat. 48 d. 20 m. and 44 m. is not above 18 Ls at most, between which is all very deep Water: For after you are off of the Bank, you come into 100 to 120 Fa. and tho you have some Shoalings as you come towards the Land, yet you have

50 to 60 Fa. to the very Rock's Noie.

We have likewife some Charts which make the distance more than 40 Ls from the inner Edge of the Bank to St. John's, which is about 18 Ls out of the way; and it must be suppos'd the Pilots from whose Reckonings these Charts were drawn, kept a very bad Account, or were very superficial in their Obfervations: 'Tis certain that to great an Error in fo finall a diffance may be very dangerous to fuch as may depend upon those Charts; nothing being more frequent upon the Coast, than to hear the Sea breaking upon the Shore and Rocks before one can fee the Land, the Country being constantly covered with a Fog from the beginning of May to July, and fometimes for the most part of August; which is the time that the European Ships which use the fishing Trade generally come upon the Coast. Those therefore who are bound to this Coast fliould be fure, befide keeping a good Account and frequent Soundings, to keep a good Look-out, that they may make the Land in time.

There is also another thing by which they may know they are upon or near the Banks, and that is, the great number of the Fowl call'd *Penguin*, which they will find here: Some tell us there are abundance of other Fowls, and fo there are,

more indeed than are ufually feen any where elfe.

But they that will have those other Fowls feen no where but on the Banks, are certainly mistaken, for all the forts, such as Willocks, Gulls, Sheerwaters and Noddies, are often feen at a great distance from the Banks, nay it is affirm'd that they are feen 100 Ls off. But the *Penguin* is your faithful and S.Vis furronear th Rocks cover'd finall I they n

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From the same N.E. Point there is an Arm of Land stretching out with a Hook, so that it almost meets with another Point of Land, and makes *Harrington Sound*, an excellent Harbour, and able to receive a Fleet of Ships, having 7 to 8 Fa. and very secure riding, shelter'd from all Winds; and there is 3 to 4 Fa. in the Entrance.

On the S. side there is likewise another Arm or Hook, which is senc'd by several Islands reaching to that part call'd Spanish Point: The Space within is call'd the Great Sound, and is a very good Hatbour: Also the Entrance of this Sound goes in between Spanish Point and Irelands Island.

Within this Sound are feveral smaller Harbours very good and secure, such as Paget's Port, Witcharn Bay, and others; also there are several very good Bays and Harbours on the S.E. side: But notwithstanding all these, except you are very well acquainted, 'tis not advisable to come near in the Night: but if you make the Island in the Evening, stand off and on till the next Day, and then make a Signal for a Pilot to carry you in.

It is observable also, that these Seas are much more tempestuous than any other of the same Latitude this way, (the Reason of which is very difficult to assign) being liable to sudden and violent Gusts and Storms, so that the Spaniards us'd to call them the Devil's Islands, and always thought it a good Omen of a prosperous Voyage, when they were got past that Latitude.

Due S. a little westerly from the Burmudas, (leaving the Ba-bamas as too numerous and too insignificant to take any particular Survey of them) we come to the W. end of the Island of Hispaniola; between which and the Island of Cuba lies the Channel which they call the Windward Passage, being the only other way to disembogue out of these Seas from the Spanish Coast into the Ocean: I mean, besides the Gulph of Florida mention'd above. Having been then brought to the Islands from the N. Ishall take them as they lie for the Description of their Coast in a half Circle, leaving the lises of Cuba and Hispaniola to the last.

St. John, or St. John de Porto Rico, is a long Island stretching E. and W. The distance from the E. end of Hispaniola, that is from Cape Sumana, the N.E. most Land of Hispaniola, to Cape Anguada the westermost Land of Porto Rico, is 2.2 Ls. The N. side is till of Rocks and small Island, which

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from to be worn bare by the Rage of the Sea. The principal Harbour lies N.W. on that part of the main Island just behind the Island Rigo: The Entrance into the Harbour is along the Shore of the little Island, because on the W. Point of the Harbour it felf there lies a Rist, which shoots off half thwart the Entrance. On the Point of the Island stands the Castle commanding the Passage; and upon the W. side of the Harbour, upon a Rock off of the sandy Rist, another. When you are in, the Haven is capable of receiving any number of Ships. The best riding is a little to the eastward of the City, because the easterly Winds which blow trade here, blow right in, and bring a large Swell of the Sea with them.

W. from this Harbour is another call'd Cobeca, being in the Mouth of the River of that Name: Just in the Entrance of the Harbour lies an Island also call'd the Passage, which reaches quite thwart the Mouth of the River, leaving an Entrance for Shipping only at the E. end of it, so that the Har-

bour is behind the Island.

10 to 12 Fa.

On the E. end of the Island are several small Coves, and a River call'd *Luzia*, and abundance of Rocks above and under Water. The S. Coast of the Island is cover'd with Rocks and Shoals, so that there is very little Navigation on that side.

You may anchor in the Bay of Anguada, and of Porto Rico, in 23 Fa. foft and ouzy Ground. In coming into the Bay of Anguada from the N. you may come within a Mile of the Shore to the fouthward of the N. Point, and anchor there in

Off of Porto Rico due E. and in a Line from the E. end of the Island, hes a Range of small Islands call'd the Virginis, their Number uncertain: They lie E. and W. in Lat. 18 d. 20 m. the Paffage thro' them was thought very difficult and hazardous formerly; but the famed Sir Francis Drake, in his Attempt upon St. Domingo, went thro' among them without danger, and left particular Directions for the passage of others; describing the Course to be very safe, steering W. by N. and W.N.W. till you come to the W. end of the fourth Island, which you must leave on the Starboard-side, and the Island Find Cliff on the Larboard. Between the two you will have 16 Fa. a free Channel running on to the westward, before There are some places in passing thro' you alter the Courfe. where you have not above 6 to 7 Fa. but there is nothing to fear, and the Water is no where shoaler than 6 Fa. in many places 16 to 20 Fa.

E.S. E. of the Virgins, and on the N. fide of the Island of St. Martin, lies the Island Anguilla, the first of the smaller Anticles. There are some small Islands between, as Sancta Cruz, Anagada, and Sombreve; but there is so little Navigation to them, and very sew or no Harbours, that they require no other Directions than to steer clear of them in your Course to the Islands of greater Importance. There is indeed good anchoring on the N. side of Sancta Cruz, in a large Bay,

but no landing-place, or any fresh Water or People.

There is very good anchoring on the S. fide of Anguilla,

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N. B. From the E. side of Nevis to the W. side of St. Martins and St. Christophers, your Course is N. and N.W. by W.

Nevis is a finall the prosperous Island, and has much Shipping comes to it with but little Convenience for them: There is no good Harbour in the whole Island, the tolerable good anchoring on the S.W. fide, there being several Rocks and Shoals, between which the Ships ride with safety, except in case of Hurricanes, when they put out to Sea, and if possible run into Antegoa. They have very good sresh Water here, which is hard to be had in several Places among the Islands. The nearness of St. Christophers is now its best Harbour.

N.E. from the E. end of Nevis is an Island call'd Barbuda, not planted or inhabited like Nevis, but much better provided for Shipping; for on the W. side is a good Road in 9 to 14 Fa. good Ground, and well shelter'd. From the S.W. Point there runs a Shoal of Sand above 2 Ls into the Sea, and from the N.N W. Point another; so that 'tis dangerous coming at those two Places: But the W. side is clean, and clear of either Rocks or Sands.

S. from Barbuda, and between it and Guadalupe, lies Antegoa in 17 d. N.Lat. it lies in length from E. to W. 5 ½ Ls, and in breadth N. and S. 4 Ls. It is in many, if not in most parts surrounded with Rocks, so that it is a difficult Coast, especially for Strangers: And all along the N. side of the Island there is a Ledge of Rocks lying off in the Sea near 2 Miles from the Shore; but there are several Channels to go in between them, and in some places over them: But that requires being well acquainted, Pilots not being always found to carry into every part.

There are many Inlets among the other Rocks on every fide the Island; and *Antegoa* is particularly famed for good Harbours, beyond all the Islands which the *English* possess in these

Seas. The principal are as follow:

1. Nonfueh Harbour.

5. Carlifle Road.

2. Willoughby's Bay. 3. Falmouth Harbour. 6. St. John's.
7. Five Island Harbour.

4. English Harbour.

1. Nonfuch Harbour lies at the E. end of the Island: On the S. side is Green Island. The best going in is between this Island and the S. Point of the Harbour, which they call Hungry Islit, where you have 5 Fa. almost all the way. In the Entrance, on the N. side of Green Island, the Road is soul, full of Rocks, and in the Channel not above 6 to 8 Foot Water, except in one place, which is very difficult.

2. S.E. from Green Island near 2 Ls lies Willoughby Bay; the Mouth of it is very wide, little lefs than a L over, but is above two Thirds of it block'd up with a Sand or Shoal, which lies off from the N. Point, stretching directly to the S. Point; from whence another Sand spits off, as if it would meet the first, and block up the Harbour. This is call'd Sandy Point.

Between these however there is an open Channel, where

Font Cliff on the Larboard. Between the two you will have 16 Fa. a free Channel running on to the westward, before you alter the Course. There are some places in passing thro's where you have not above 6 to 7 Fa. but there is nothing to fear, and the Water is no where shoaler than 6 Fa. in many places 16 to 20 Fa.

E.S. E. of the Virgins, and on the N. fide of the Island of St. Martin, lies the Island Anguilla, the first of the smaller Antilles. There are some small Islands between, as Sansta Cruz, Anagada, and Sombreve; but there is so little Navigation to them, and very sew or no Harbours, that they require no other Directions than to steer clear of them in your Course to the Islands of greater Importance. There is indeed good anchoring on the N. side of Sansta Cruz, in a large Bay, but no landing-place, or any fresh Water or People.

There is very good anchoring on the S. fide of Anguilla, the Current being gentle on that fide, for it comes from the NE. And there is a long Ledge of Rocks stretching off from the E. Point, which breaks the Force of it. The E. fide is cover'd with Flats and Shoals, and small Islands, so that it is almost inaccessible.

St. Martin lies S. from Anguilla in Lat. 18 d. 11 m. it firetches E.N.E. and W.S.W. 5 Ls, and about 3 in breath. There are feveral good Bays and Roads on the N.W. fide; and the Channel between it and Anguilla is free from Rocks, and clean Ground: particularly on the W. end of the Island there is a very good Road in 9 to 10 Fa. good clear Sand: And on one fide of the Road are two or three Salt-Ponds, where Ships load Salt with great Convenience.

St. Bartholomew's lies S.E. from St. Martin's, and from the N.E. Point of St. Christophers N.W. but nearest St. Martin's, and in the same Latitude to a Minute. There are no Roads or anchoring-places upon the Coast of this Island, nor much need of them. There are two little Islands W. of St. Bartholomew's, call'd Saba and Estatia; the last dist. W. by N. from the W. Point of St. Christopher's about 3 Ls, and the former much the same dist. from the latter. There is nothing to be said of them, but that they are wild Rocks, and to be avoided, having neither People nor Produce upon them.

St. Christophers is a large Island about 7 Ls long and 4 broad, the S.E. end runs far out in a sharp Point, and is almost taken up with a great Salt-Pond. There are two good Roads near that part, which were formerly distinguished by the English Road and the French Road, but are now both English, as the whole Island is, yet may perhaps keep the Names: The English Road goes in at the S.E. Point, and the French at the N.W. Off of the W. Point lies a small Ledge of Rocks, and off of the W. side of the S.E. Point a little Island. The Island of Nevis or Mevis, lies off from the S.E. Point of St. Christoph is due S.E. and the Passage between is so narrow and so foul, that there's no passing without evident hazard of losing your Ship.

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Between these however there is an open Channel, where Ships of good burden may go in; and when they are in, there is very good riding almost every where, except that in the very Entrance, and on your Larboard side, there is a little Shoal call'd the Horseshoe; but it is above Water, and plain to be differn'd by the Rippling of the Sea.

3. W. or W.S.W. from this Bay about 4 Miles lies Falmouth

Harbour.

4. And between them both, but nearer to Falmouth, lies

English Harbour.

5. W. by S. from Falmonth Harbour about 5 Miles lies Cartifle Road. These are all fair Harbours, with little difficulty attending them: And at Falmonth especially, what difficulty there is may be made easy; for the Town being near the bottom of the Harbour, you may always have a Pilot there, as you may also at the watering place in Cartifle Road.

W. from Carliff Road there is a very frightful Ledge of Rocks call'd the Breakers, because the Sea always makes a great Breach upon them: These Rocks lie along with the Shore, as far as off of Johnson's Point, which is almost 8 Miles; it is true, there is a Channel between these Rocks and the Shore, but a Stranger would do well to keep off till he gets help.

N.W. from those Rocks lies a Sand as dangerous as the worst Rocks, extended N. and S. in length (including a Tail of Rocks, which runs out from the S.W. Point of the Sand towards the Rocks) almost 2 Ls, and reaching almost to the Five Islands; so they are call'd, being some small rocky Islands opposite to the great Opening or Bay call'd Five Island Harbour, on the W. end of the Island.

6. This Five Island Harbour is wide, and goes far in, and is therefore call'd a Harbour, but hardly merits that Name, for 'tis full of dangerous Rocks, Shoals, Riss, and uncertain Deeps, so that 'tis a very difficult Place: Yer to those that are well acquainted 'tis made helpful in cases of Distress, and in northerly and easterly Winds there is Shelter enough. There are also two Creeks at the Bottom of the Bay, which might be made useful for small Vessels on many Occasions.

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Sailing Directions for the Carib

7. Due N. from Five Island Harbour lies St. John's, which is call'd the best Harbour (or Harbours, for it is a double one) in the Island, and is accordingly the most in use: The Course to these Harbours indeed lies N. and S. but the Harbours themsolves lie rather N.E. and S.W. There is a Sand, which running out from the N. Point of the Entrance, where the Fort stands, and stretching S.W. lies quite thwart the Harbour, home to the opposite Point and is a plain Bar cross the Mouth of the Harbour: On this Barthere is but 2 1/4 Fa. Water, so that no Vessels drawing more Water should venture over it; the deepest 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 keep all along under the S. Shore from Ship-stern Point to the Bar: All the Shore is bold and clean, so that you have nothing to fear, tho you come within a Coit's cast of the very Point; for there is 9 to 11 Fa. close to the Land. The Description of this Coast is more particularly given, because it is an Island much frequented by Shipping, and full of Busincis, and also a Shelter for other Ships in diffress, because of the many good Roads about it.

W.S.W. from Antegoa lies the Island of Montserrat, a little but well-planted Island, and some Ships consequently 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 case of a Tornado the Ships must put off to Sea, and make to St. Chrisimpher's one way, or to Antegoa the other, according as the Winds may ferve, or according to what place they lie in before.

S.E. from Mount serrat, and due S. half E. from Antegoa, lies the Island Guadalupe, or Guardalupe, a French Colony: it is form'd of two Islands, for there is a narrow unnavigable Channel between them, which does effectually separate them: Boats may go thro' this Channel, and fome fay that small Sloops have pass'd it, but I doubt the last; and as for Ships going thro' that is not pretended. The Navigators therefore reckon them but one Island.

The whole extends in length N.E. and S.W. with some small difference inclining N. and S. On the S. side is a good Road, tho in deepWater 20 to 50 Fa. Here are several small and mostly uninhabited Islands especially in the way from Nevis hither, and farther S. which being of no use in Navigation, and having no Shelter about them, are only nam'd that they may be shun'd; fuch as Redonda, W.N.W. from Mont serrat; des Santos, being four Islands lying due S. from the W. end of Guadalupe; Aves, W. by S. from des Santos; and Descada, 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, lies the Island of Dominica. There is a very good Road off of the S.E. Point of this Island, fit not only to fecure Ships, but to clean and careen in. This Road is in a fair Bay; 'tis known by a high Pico, or sharp Hill, lying as it were an Island just before the Road, and which makes it a locure Port or Harbour. It makes like an Island but is not

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On the N. fide and on the S.E. fide, the Shore is full of small broken Rocks and rocky Islands, daugerous to come to; but on the S.W. fide tis very fair, and a clean Coast: And there is a particular Point of Land which running out westerly to seaward, 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 Devil's Island. This Bay goes so far in, that when you are at the End or Bottom of it, you cannot see the open Sea from the Deck. There are also several small Coves or Harbours within this Gulph, one of which is call'd the Governor's Bay. There are feveral good Roads besides this, but the principal Port is here, where the Castles and Forces are kept, and where the Men of War ride.

S.W. from Martinico lies the Island of St. Lucia: It has a fair smooth clean Coast on all the S. side of the Island, 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 Round Bay; 'tis the more convenient for Navigation, because it is on the Leewardfide of the Illand.

Due S. from St. Lucia lies the Island of St. Vincent, in Lat. 13 d. 5 m. being in a Line E. and W. with Barbadoes. There are very good anchoring-grounds on every fide, especially on the S.W. and W. Coast of this Island; but the chief Place for a good Harbour is the Bay of St. Anthony. There are also in most of the little Bays here, good Places for watering, and plenty of Water at any of them: in the Bay of St. Anthony there is from 15 to 36 Fa. Here is, in short, good riding almost all round the Island, but no Business.

S. and S. by E. from St. Vincent lies a long Range of Islands, most of them uninhabited, and perfectly useless in Navigation; Granada, which is the most foutherly, lies in Lat. 11 d. 45 m.

Due E. from St. Vincent, and in the same Lat. as above, lies the Island of Barbadoes: it lies out of the Range of the Caribbees, and some will have it that it does not belong to them, being distant from St. Vincent about 22 Ls. On the E. fide are leveral Points bearing out into the Sea, by which means there are several good Bays and Roads on that side; 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, Michael's Bay, Knots Bay, Constant's Bay, Easting's Bay, River's Lay, and others, in all which there is good anchoring on Occasion.

But the biggest and best is on the S.W. side, call'd Carlisse Bay, near the capital Town call'd Bridge Town: You may 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 worse the Ground; therefore you must be sure to buoy up your Cables well, and have them well ferv'd also, or you will endanger losing your Anchors. The great Ships generally ride in 25 to 30 Fa. In a word, there are good Bays and Roads on every side the Island, but not one Haven or Harbour.

S. by W. from Barbadoes, and dift. 32 to 33 Ls, lies the Island of Tobago, extended in length N.E. and S.W. about 6 Ls, and scarce one in breadth, lying about 14 Ls due N. from the Francis Trividado in Lat ... d. N.

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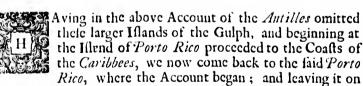
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Due S. from *Dominica* lies the N.W. end of the Island of *Martinico*, a *French* Colony, and the largest of all the *Caribbee Islands*. In the middle of the Island is a large high Mountain, which is the Sea-Mark for all the Coasts, and by which the Island is known, which way soever you come to it.

Sailing Directions for the Islands on the North and the Island of Hispaniola to the Island



the Starboard-side, we observe, that due W. from Porto Rico, dist about 20 to 22 Ls, lies the great Island of Hispaniola.

The N.E. Point of Land upon this Island is Cape Samana, formerly call'd Cape St. Raphael; it runs a great way to seaward, the Land beyond 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 same Name of Samana, or as some write it Sumana; the River is a pretty large

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S. by W. from Barbadoes, and dift. 32 to 33 Ls, lies the Island of Tobago, extended in length N.E. and S.W. about 6 Ls, and scarce one in breadth, lying about 14 Ls due N. from the E. end of Trinidado, in Lat. 11 d. N. Here are several good Roads and Bays for Ships to anchor in, but as the Current is exceeding strong, and always sets from the E. to W. it makes most of the Bays and Roads useless.

The best Road is in little Hog Bay, where you may ride with great Security, the Town and Fort if inhabited lying due N. before you: But here is no Business, nor is it certain whom the Place is posses'd by, sometimes English; sometimes Dutch having the Government of it, and often neither one or other.

Thus far the Islands call'd the Antilles and Caribbees are said to extend: There are some sew Islands farther S. but as they rather belong to the Coast of South-America than to the Caribbees, we shall refer them to their proper place, and go back to the larger Islands of the Gulph of Mexico, which are more particularly concern'd in the Navigation of the said Gulph.

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dispaniola.

Cape Samana, it way to seasor S.W. by W. V. of the Cape of Samana, it pretty large

Stream for 3 or 4 Ls into the Country, but then is too small for Boats, and often drys up in a hot Season.

On the W. side of the Mouth of the River, towards Cape de Cabron, lie four small Islands near the Shore, which serve to make the Bay a safer Road; if you would go into this Bay of Sumana, observe to bring the westermost Point of Cape Cabron (for the Cape makes in two Points) open to a white Spot of sandy Ground, which you will see on the Shore, and with that Mark run into the Gulph: The Soundings are very uncertain, for when you are shot just into the Harbour, you have 10 Fa. and soon after no Ground at 20.

There are several Keys (that is to say Rocks) and Points in the Bay, by which the best Ground for Anchorage is mark'd

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out, such as (1.) Rlue Point on the N. side, but E. from you, dist. 4L. (2.) The Great Key, that is a great Rock, E.S.E. 3 Miles. (3.) The Low Point to the N.W. 5 Miles. (4.) Rannister's Key W.N.W. 1 Mile. You may anchor at any of these, observing only that the best riding is in 14 Fa. about 3 quarters of a Mile from the Shore.

Cape Cabron lies N.W. westerly from Cape Sumana; 'tis a broken Point, and makes at a great distance like a Ship with her Topmast struck, but coming nearer restores it to its Shape.

From Cape Cabron the Coast goes away W. keeping between the Main and an Island that lies about a Mile from the Land: The Shore is steep too, and you may go as near as you please.

Before you come to the Island, you have good Soundings from 8 to 14 Fa. and afterward in 15 to 19 Fa. keeping the Island N.W. by W. from you: There is ulually a Day-breeze upon all this Coast from the castward.

W. from Cape Cabron lies Cape Frances; 'tis a high Point, and has a falle Cape on the E. fide of it, but you must be careful to observe it narrowly, and keep a good Offing, and then

you will discover it in time.

W. from Cape Frances comes in a River, but not navigable; on the W. fide of which River lies the Harbour of Porto Plata in the Bottom of a Bay: In failing in you must leave some small Islands which he in the Mouth of it, on your Starboard-fide: 'Tis an excellent Harbour when you are in, and good Ground, every where well secured, and has 8 to 16 Fa. Water.

Due W. from Porto Plata lies Monte Christo; but your Course is N.W. till you can double the great Cape, which lies from the Porto Plata N.W. westerly, 10 Ls. Then go away S.W. 15 Ls more; so that 'tis 25 Ls by Sea, and but about 19 on a Line by Land. In sailing this Course give a good Birth to the Cape, and to three Islands which lie off from it.

On the W. fide of Monte Christo lie several small Islands. which you must give a Birth to also, and then go away to Manfanetti Bay, leaving all the Islands on your Larboardfide. From the W. Point of the Bay lies a great Shoal of Sand, stretching W. off a great way; keep without it in 4 to There are several Rocks on the W. side of this Bay, call'd Caya Palmeta. As for the Islands, Cays or Rocks not named, you have nothing to do but to keep without them all at a good distance. There are many Rivers also in this Bay, and the Spaniards have much Shipping here, especially Sloops and Barks to trade for Provisions; and there are abundance of pretty good Towns confidering the Place, as Porto Real, Porto Francois, Port Palma, and others. If you are bound into any of these Places, there are Pilots to direct you in; for the best printed Directions are very impersect, and not to be trusted to.

To the W. of the Bay of Manfanetti (for so 'tis sometimes call'd) lies Cape St. Nicholas; and off of Cape St. Nicholas lies the Island of Tortugas, or Tortudas S.W. and N.E. 'tis almost surrounded with Rocks as well on the N. as on the W. side; but on the F. and lies the Road, difficult to find, and Orange.

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a Riff of Sand between, that there is no going I ctwcen the Cape and the Island. From this Island the Course is S.W. to Cape Tiberon, call'd by some Tuberon, by others Tibron: It is the westermost Land of the whole Island of Hispaniola. From the N. Point of the Island Camita to the W. end of the Riff off of Cape Tiberon, is 101s.

N.E. by N. from Cape Tiberon 6 Ls lies Donna Maria Bay, call'd to from a Mountain within Land of the fame Name, which is a Sea-Mark for all that part of the Streight. Close under the Cape on the N. fide is a good Road, call'd the

Bay of Allegata.

N.W. by W. from this Capelies the Island Navaso, or Novola, diff. 12 Ls, being directly in the Course call'd the Windward Paffage, of which in its Place.

From Cape Tiberon the Land falls away S.E. for 10 Ls, and then E. by S. to Cape Buco 8 Ls more, and then S.E. from the Cape lies the Island Vache or Vacca, which the Spaniards pronounce as we do Vash, and from thence our Seamen call it corruptly the Isle of Ash; whereas its true meaning in English is the Isle of Cows, call'd to from the great Quantity of Black Cattle found here by the Sailors, who usually land to hunt and kill them.

The Island stretches away E. and W. 7 Ls making within, the Ray of Savanna, a well known Place for the Buccaniers Rendezvouzings, and for getting Black Cattle for Victualling. The E. end of the Ifle of Ath is low and shoal; you must not come within 2 Ls of it except in Shallops. From hence a large Rift off Rocks stretches out into the Sea N.N.W. almost 4 Ls: Upon which Riff a rich English Ship call'd the Jamaica Merchant, Capt. Morgan, was formerly loft, the the Rocks are all above Water: The Ship struck upon the southermost of the two Keys (as they call them) on the faid Rocks, where the People got on Shore, but could never get the Ship off.

Between those Keys or Cayes is good anchoring in 4 Fa. but Morgan's Ship being in Diffress, and in the Night, could not fetch to the Road. To the eastward of the W. Point of the Island is a Range of Keys (to they call the Rocks above Water) which are steep too; they stretch away E. by S. round that part of the Island almost 3 Ls near to Morgan's Key, (now call'd to, because Capt. Morgan and his Passengers came on Shore upon it) between those Keys and some other Rocks at the E. end, the Shore is all Rocks and Shoals of Sand very dangerous.

N. B. Our Pilots affure us, that due S. from this unhappy Island dist. 3 Ls off at Sea, there lies a dangerous Rill or Shoal of Sand, stretching outward near 3 Ls, and that there is not at low Water above 3 Foot Water on it.

E. from the Isle of Ash 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 it, with 3 Fa. Water: And a-breast of the Port half a Mile off you have 6 Fa. very good Ground.

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5 Fa. There are several Rocks on the W. side of this Bay, call'd Caya Palmeta. As for the Islands, Cays or Rocks not named, you have nothing to do but to keep without them all at a good distance. There are many Rivers also in this Bay, and the Spaniards have much Shipping here, especially Sloops and Barks to trade for Provisions; and there are abundance of pretty good Towns considering the Place, as PortoReal, Porto Francois, Port Palma, and others. If you are bound into any of these Places, there are Pilots to direct you in; for the best printed Directions are very impersect, and not to be trusted to.

To the W. of the Bay of Manfanetti (for so 'tis sometimes call'd) lies Cape St. Nicholas; and off of Cape St. Nicholas lies the Island of Tortugas, or Tortudas S.W. and N.E. 'tis almost surrounded with Rocks as well on the N. as on the W. side; but on the E. end lies the Road, difficult to find, and strangely difficult when sound, by reason of Rocks and Sands, almost every where; which however are the Sasety of the Place when you are in, for then nothing can hurt you: But you must be very well acquainted if you find the Channels without a Pilot. There are several little Roads also on the N. side of the Island among the Rocks, if you can find your way in; but 'tis so hard to find these also, that 'tis not worth the hazard.

N. B. This Island of Tertugas was formerly the great Rendezvous of the French Buccaniers; and perhaps the Difficulties of the Entrance and of the Roads on every fide of it, was the chief thing that made it so.

W. from this Island is Cape St. Nicholas, off of the N.W. Point of the main Island; which Point runs out almost Gun-

that from the rest of the Land.

N. B. From Cape St. Nicholis to Pettyguavies 'tis always calin from 3 or 4 in the Morning till Noon (Tornades excepted) then from Noon till 3 in the Morning the Scabreeze springs up without fail.

S.E. off the Cape about 10 Ls lies the Harbour and Bay of Pettyguavies: To go in there give the Point a good Birth, because of a Shoal which lies off. When you are open with the Point, you will see a small Island, which you must leave on the Larboard side, and go into 10 and 12 Fa. or close by the

Island, 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 Antebonique or Antebanico; but the River is good for nothing, being dry at low Water. And S.W. from the River is a large Bay call'd Jaguana, with several small Ports in it, but of no consequence in Navigation; nor is the Harbour and riding in the Bay very good, the best is under the N. Shore.

Twenty-eight Ls W. by S. from this Bay lies Cape Rofa: On the E. fide of it is a little deep Bay running 3 Ls into the Land; and N.E. from the Cape is the Island Comita or Camita, distance from the Cape 3 Ls, but all so foul with Rocks, and

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which are steep too; they stretch away E. by S. round that part of the Island almost 3 Ls near to Morgan's Key, (now call'd so, because Capt. Morgan and his Passengers came on Shore upon it) between those Keys and some other Rocks at the E. end, the Shore is all Rocks and Shoals of Sand very dangerous.

N. B. Our Pilots affure us, that due S. from this unhappy Island dist. 3 Ls off at Sea, there lies a dangerous Rist or Shoal of Sand, stretching outward near 3 Ls, and that there is not at low Water above 3 Foot Water on it.

E. from the Isle of Ash lies Port Lewis, named so by the French; who are planted there, and where they have a good Harbour under the Mountain, with a Road before it, with 3 Fa. Water: And z-breast of the Port half a Mile off you have 6 Fa. very good Ground.

In all these Roads the Ships lie to get Hides, which they either buy of the Buccaniers, or go on Shore at Savanna Bay, and kill the Cattle for them. This South side of Hispaniola is void of other Trade, so the Shore is much out of use, and not exactly survey'd. The principal Places are Port Congo, Jaquimo, Cape de Lobos, Cape de Alongua, Alliovalla, the Bay of Samba Beata, the Bay of Honda, and Occoa de Ilato, Cavaleero Point, Zapezein, the Bay de St. Catherine, or Cattalino, Punta de Nisao, and the Port and City of St. Domingo.

St. Domingo is the only Place of Consequence: It is a good large City, and has a very fine Harbour, the Entrance safe, but not very easy: If the Spaniards will let you go in, they will send you a Pilot; but they are very scrupulous of any Strangers entring, tho in time of Peace; being so much assaid of the Buccaniers and Free-booters, and having been formerly plunder'd and burnt by the English. But if you would go in whether they will or no, run right with a flat Tower towards the Castle, and you will have 15 Fa. within a Mile of the Tower, open to a slat Point on your Starboard side, and a little within a small Fort which lies on the left; in a word, if a Fleet able to pass and batter the Forts are willing to venture, they cannot do amiss as to the Ground, if they run in directly in the Mid-Channel.

From Cape Cavalero, the castermost Point of the Entrance into St. Domingo, to the Island Saona, is 3 t Ls, the Course E. by S. or E. halt southerly. The N. and S. side of the Island is all rocky and soul: under the E. end you may ride in 8 Fa. but not well shelter'd.

From hence to Cape Enganno is 15 Ls: this is the eastermost Land of Hispaniola, and is dist. from Cape Sumana 16 Ls, the Course S. by E. and N. by W.

N. B. From this Island of Hispaniola N.E. lie abundance of Shoals and Flats, and among the rest the Shoal where Sir William Phipps sish'd up his Plate from a Spanish Wreck, also many Islands and Banks, all which are included in what has been already mention'd of the Bahamas, which take their beginning in Lat. 21. to 22 d. N. and N.W. from Hispaniola.

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Sailing Directions for the Coasts of

Duc W. by N. from Cape Nicholas on the W. end of Histaniola lies Cape Mayzo being the eastermost Land and Point of the Island of Cuba dist. between the Capes 9 Ls.

N. B. In this Streight holding within half a L. off from Cape Mayzo lies the Course thro', which they call the Windward Passage, and is farther described in its place; just opposite to Cape Mayzo the said Course changes from N.E. to

N. by W.

From this Point the N. Shore of Cuba stretches away W. by N. and then due W. to the Island Baracoa, and thence passing several small places of no note, as Bilta and Zanara to Cabo Quibannano, a Cape remarkable for little but its Situation and being opposite to the Islands Verde and Mucaros, and the beginning or S.W. Point of the great Bahama Bank, dist. N. by W. and S. by E. 14 Ls.

W. of this lies Cabo de Cruis, and several small Islands and Bays of no importance to Navigation, till you come to the great Bay of Mattaneas. The Coast between makes the S. Shore of the Passage called the Old Streights of Bahama, the N. side being made by the S.W. Edge of the great Bahama Bank often mentioned above; from Cabo Quibanico to the Bay

of Mattaucas, the Coast 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 lie off great Shoals of Sand, so that you must take a good Offing; and allowing a Birth to both Shoals you must go in Mid-Channel: after you are in, under the Shoal of the E. Point about a Mile and a half from a little House, you may anchor in 5 to 7 Fa. oazy Ground: On the flat of the E. Point you have not above 9 Foot Water; when you are farther in the Bay, you may anchor where you please.

Off of the Mouth of this Bay about the dist. 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 dist. no Sound-

ings at 250 Fa.

West from Mattaneas dist. 20 Ls is the Entrance into the Havanna. This is a sam'd place for shipping, the Harbour is spacious and the most convenient in the whole Island; the Entrance is narrow, being between the Sands which lie off of the Points, no broader than that 2 or 3 large Ships may sail in abreast of one another; but after you are in, there is Water and breadth enough for a Royal Navy: The Fair Way in is Mid-Channel, a sinall Shoal lying off either Point; the Entrance is due S. in, and when in, a hundred Ships may lie in the soft Ouze without Anchor or Cable; you need no Pilot to go in, nor any Directions when you are in; for keep the Fair Way in as above, and when you are in go where you will; if you run a-ground you will get off again, unless you run on just at high Water Mark, and on purpose for Mischies: The Fortifications and City are already described, 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 entred; it is a large Bay, and runs fo far in, that 'tis able to receive the largest Fleet of Ships that ever uses those Seas. There are several small places between this and the Havanna, and with good Anchoring, but of no importance, when so

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If you would go far in, you may have a Pilot among the Fishermen; but if you would only ride for Weather, anchor behind a little Island on your Larboard side in 4 Fa. good Clay Ground, and you lie ready to go out with the first fair Wind.

N. B. Almost every where in the Bays on this Shore the Water runs with the Wind, that is, it runs out with the Land Breeze, and runs in with the Sea Breeze.

N. B. In the middle of the Bay of Honda there is a small Island uninhabited; in which there is a little Well, where (if the Spaniards refuse you Watering,) you may at any time get 2 or 3 Tun of good Water, whether they will or no; and when the Well is empty, it will fill again with the next Flood. N. B. A W.N.W. Moon makes full Sca in this Bay.

To know the Entrance into this Bay, observe, 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, lies the Rio de Porcas, or River of Hogs; between them is St. Lucia, but neither of any note, only that Ships put in there for Water, and to kill Swine, &c.

W. from Rio de Porcas the Coast runs on (as before) to Cape Bonavista, which is the utmost Land of Cuba N.W. and points open to the Gulph of Mexico. Thence the Land falls off southerly to Cape St. Antonio. All this Coast is cover'd with Rocks and Shoals, and daugerous places; so that the greatest use of these Capes is for directing the Sailors in making this Island from other Parts, as we shall see presently, in describing the Courses of the Gulph of Mexico, and the Bay of Campeachy.

This Cape Bonavista is low, cover'd with Trees and Bushes pointing out S.W. towards Cape Catocha on the Coast of Yucatan. From this Cape southward to Cape Corientes, the Shore is less dangerous and foul, than it is N and E. to Rio de Porcas.

Cape Corientes lies 10 Ls from Cape St. Anthony, S.E. nothing of note between. This is also a low Cape, and cover'd with Trees, but no Harbours this way till you come to the Isle of Pines; it is fair on the S. side of Cuba, dist. from Cape Corientes 20 Ls, the Shore between very soul and rocky; the Island Pretches out E. and W. 16 Ls, and lies from the Main of Cuba 6 Ls, all the Space between full of Rocks and Islands unpassable. Ships come to this Island chiefly to kill Cows and Bulls for their Hides, or elie for fresh Water.

All the Coast of Cuba on this side is thus cover'd with Islands and Rocks, and is such a dangerous Shore, that no Pilots have thought it worth a Survey: There are some deep Bays, and some Rivers; but all is so blockt up with Rocks, Shoals, Sands and Islands, some under Water, and some above, that no Sailors visit them, unless by Storms and Tempests to their Destruction.

Here runs out a great part of the main Island far into the Sea to Cape Cruis, lying from a River called St. Julian, due S. dist. 33 Ls, and from the Isle of Pines S.W. westerly 73 Ls: All between may be called an unknown, or at least an impracticable Coast.

From this Cabo de Cruiz the Shore appears fairer, clear of Rocks, trending away E. by N. to Cape Mayzo, the E. Point,

from the contras unt. 20 Ls is the Entrance into the Havanna. This is a fam'd place for shipping, the Harbour is spacious and the most convenient in the whole Island; the Entrance is narrow, being between the Sands which lie off of the Points, no broader than that 2 or 3 large Ships may fail in abreast of one another; but after you are in, there is Water and breadth enough for a Royal Navy: The Fair Way in is Mid-Channel, a finall Shoal lying off either Point; the Entrance 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 IV ay in as above, and when you are in go where you will; if you run a-ground you will get off again, unless you run on just at high Water Mark, and on purpole for Milchief: The Fortifications and City are already described, to which I refer.

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many famous Bays and Roads are at hand.

W. from the Bay of Cavanos 4 Ls lies the great Bay of Honda, or Deep Bay, a large wide Bay, the best in the Island except the Havanna, and not inferior to that, only not fortify'd.

The Mouth of the Bay goes in S. and N. As on either Point at the Havanna, there lies a Shoal of Sand, fo on either Point of this Bay lies a Ledge of Rocks; so that the Fair Way in, is Mid-Channel, as it is at the *Havanna*, and the Rocks lie above Water, and are so steep, you may go within a Coit's Cast of the Pitch of them, without the least Danger, especially that on the W. fide: This Riff stretches 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. close by the Rocks, as above.

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Sailing Directions for the Coasts of Jamaica, and for especially to the Western Parts, and



Amaica lies due S. from the E. Part of Cuba, stretching out due E. and W. 45 Ls in length, and in breadth N. and S. about 18 Ls; excepting one Place called Portland Point, which runs out to far into the Sea fouthward, as to make its breadth in that Place above

20 Ls: it is fituate in Lat. from 17 d. 45 m. to 18 d. 35 m. tho fome make it not fo much.

The N. and W. Coast, which is called the back of the Island, has 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 Channels and Deeps proper for them. But the chief and best Harbour in the Island, and which abundantly supplies for other Deficiencies, is that of Port Reyal, lying on the S. side of the eastermost part of the Ifland.

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All the Coast of Cuba on this side is thus cover'd with Islands and Rocks, and is such a dangerous Shore, that no Pilots have thought it worth a Survey: There are some deep Bays, and some Rivers; but all is so blockt up with Rocks, Shoals, Sands and Islands, some under Water, and some above, that no Sailors visit them, unless by Storms and Tempests to their Destruction.

Here runs out a great part of the main Island far into the Sea to Cape Cruis, lying from a River called St. Julian, due S. dist. 33 Ls, and from the Isle of Pines S.W. westerly 73 Ls: All between may be called an unknown, or at least an impracticable Coast.

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 steep on the side next the Sea: there is a great Shoal runs from it far into the Sea S. which you must take care of. Between this and Cape Mayzo on the Coast, as above, lie several small Ports, but only two of note, viz. Porta Portilla, and Civitta Veech: they are both very convenient Harbours, and well shelter'd, but little frequented; they have in the Entrance of either of them 3 to 4 Fa. The other are Point Mathanon, Porta de Palma, Porto Escondido, Bay of Teaquery, and several others; in most of which there is good Anchoring and Shelter for Ships, but no Shipping to make use of them.

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It is true, our Pilot-Books fatisfy themselves with describing this one Port, as if it was sufficient to answer the End for the whole Island; the Trade as it were all centring in that Part, and on that Account it may be sufficient: but we will touch a little upon the rest, taking things as they lie.

The eastermost Point of Jamaica is Point Morant: From hence you take your Departure, if you are bound thro' the Windward Passage, or to any of the W. parts of Hispaniola. On the N. side of the Point is a Harbour bearing the same Name, to go into which you sail N. by W. leaving the white Clists under the yellow Hills on the Larboard side, 3 Ls to the N.N.W. the Channel is narrow, and requires nice steering. There is a low Point runs off eastward; on the W. side the Land is high and mountainous. Here is a small River of good fresh Water comes in from a Rock in the W. part of the Coun-

try, and is never quite dry; 'tis called the River Savage, and is very uleful to Ships to take in Water, which is otherwise

scarce enough.

From this Point the Land goes away S. about a L and half, and then falls away to the W. to Little Sandy Bay. There is a Flat upon this Shore from Morant Point to St. Thomas's, which is a deep Bay running N. into the Land about a Lup: The E. Point of this Bay is called Linch Fort, under which there is good anchoring in 8 Fa. and in the Bay is the fame in 5 and 3 Fa.

W. from the Entrance of this Bay lie two finall Shoals E. and W. from one another; the Passage between them is good, and is called the Savanna Channel; due W. from which, dift. 3 Ls, lies Saltpond Point, being the westermost Point of the White River. There are feveral of these little Creeks on this Shore, to which they give the Name of River, tho none of them merit it; and most of them are dry except in the rainy Scaton.

W. by N. from Saltpond Point lies Port Royal: Between them lies a Bay which goes in due N. called Long Bay, and in that Bay is another called Bull Bay, and a Point of Land called Plumb Point. The W. Shore of this Bay is the narrow Ishmus, which makes the E. side of Port Royal Bay; and on the S. Point of which, before the great Earthquake destroyed it, stood the Town of Port Royal.

Some of our Charts call all that Bay, which spreads it felf from within Pelican Point, by the Name of Port Royal Harbour: But others, and with more justice, describe the Harbour to be only that leffer Bay which lies between Port Royal and Musqueto Point, lying in E. and the two Points bearing N. and

S. from one another.

To come into this Harbour from the castward, you must first make Plumb Point; then shooting to the westward of the Point, keep the Main on board, so you will go within all the fandy Cayes which lie in the Offing: keep in the Mid-Channel in 10 to 14 Fa, till you come abreast of the Point of the Town, or rather where the Town once flood: Then run in E. and pais the Channel between the Cays and the Shore, giving them a Birth of Channel over: Bring Salt pond Point to bear W by Nover your Stern, you will then be against the Middle of the Town of Port Royal: Then go on W. round the Point of Port Royal about a Cable's length off of the Fort, leaving it on the Starboard fide, and anchor in the Harbour, where you will

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Sailing Directions for going from Port Royal for English the Gulph of Florida, and the Windward Passage



OUR best way in sailing thro' the Windward Pas-sage, is to get the W. part of the Coast of Hispa-nisla on board, as soon as you can, and for which the Rule is general, and known to all our Welt-In-There you will never mils of a windward Current, the Stream always letting to the N. as it does in the Gulph of

If you: merica, y whole We endeavour 25 d. 25 1 Point of a s from Port Royal to England.

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ought rather to be called the Bay, lies in N. leaving Musquito Point on the Larboard fide: That Point and Pelican Point 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 Musquito Point; but as they are not in the Fair Way into the Bay, they need no Description. On the W. fide of it lies a small Fort called Passage.

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N. B. The little Sands and Rocks which lie off of this Harbour, as it is also on the Coast of Cuba and other Places, are called Cays, such as those before Port Royal, which are the Eastermost Cay, Buth Cay, Sandy Cays, and several others. N. B. Our People ignorantly call them Keys.

and in and calnarrow and on effroyed S.W. from *Pelican Point* the Shore goes away S. by W. half W. to *Ripley's Shoals*, which lie off from the Point, and then lies W. to *Cabarito Point*, being the E. Point of the *Old Harbour*. There are abundance of Islands in the Entrance into this *Old Harbour*: But to those that are acquainted, there are good Channels between them all, and very sate riding under some of them, in 6 to 8 Fa. But for Strangers they should take the help of Pilots.

s it felf yal Har-Harbour oyal and 3 N. and On the W. fide there is good anchoring in Bigg's Bay, and S. from that in West Harbour; but both lie open to S. and S.E. Winds. S. from this Harbour lies Portland Point, and about 12 Ls from thence lie Pedro Shoals, which are Sands lying E. and W. 15 Ls in length. Then follow other Shoals farther westward 25 Ls, call'd Saronilla; and from thence still W. other Shoals, with Rocks about them, call'd Sanilla: All these lie to the W. along the S. Ossing of the Coast between Portland Point and the Little Camines: The farthest of those lies beyond Point Negril, which is the westermost Point of the Island.

ou must d of the n all the Channel Town,

There are some good Roads farther toward the W. end of the Island, as at Bluesield Bay, Hudson's Hole, and at the Mouth of the River Cabarito; but these are only used on Occasion: The main Center and Port for Business is at Port Royal; and the going from thence being so much more difficult than the coming to it, 'tis needful to give some Directions for that part.

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Royal for England, thro' the two Grand Courfes, viz. Idward Passage by the Bahama Islands to Exuma.

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If you are bound to Providence from the Continent of America, your furest way is to make the Island of Islathera, whose Westing is about 30 Ls from the Capes of Virginia; endeavouring to fall in with Islathera in the Lat. of about 25 d. 25 m. N. which will bring you about 9 Ls from the W. Point of Islathera. The Land hereabouts is very remarkable

or rather where the Town once Hood: Then run in E. and pais the Channel between the Cays and the Shore, giving them a Birth of ? Channel over: Bring Saltpond Point to bear W by N. over your Stern, you will then be against the Middle of the Town of Port Royal: Then go on W. round the Point of Port Royal about a Cable's length off of the Fort, leaving it on the Starboard fide, and anchor in the Harbour, where you will

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dia Sailors. There you will never miss of a windward Current, the Stream always setting to the N. as it does in the Gulph of Florida, and in the Evening a Wind off Shore: But if you stand for Cuba, and cannot setch within 7 or 8 Ls of Cape Mayzo, you will find a very strong Current indeed, but will have little savour from the Wind; and when by these Directions you are come up with Cape Mayzo, having it W. off from you, your Course is N. half W. 37 Ls; which will bring you fair in with the W. end of the Crooked Island. Steering that Course you need not sear the Hog-slies, for you will pass to the westward

of them, at the distance of 10 to 12 Ls.

From the W. end of Crooked Island your Course is N. about 18 Ls, which will give you the length of Crooked Island; and from thence sleer away N. and that will carry you to Sea, clear of all danger: But if you are bound to Exuma, you must direct your Course from the N. end of Crooked Island to Rum-Key; your Course thither is N.W. half N. dist. about 20 Ls. From thence direct your Course for Long Island, which is W. a little foutherly, (a N.W. Course carries you clear of it:) About 6 Ls from the N.E. end of Long Island, to the Key's before the Salt Tond at Exuma, the Course is W. half S. the diff. about 8 Ls. If you are bound from Exuma to Providence, you must make your way for the Ship Channel, which lies between Cat Island and Illuthera: Your Course from Exuma thither is NN.W. dift. 22 Ls; and fo you may proceed to the N. westward along the Island Illuthera: But the nearest Cut from the Exuma is over the Grand Bahama Bank; to go this way your Courle is W.N.W. or rather N.W. by W. about 40 Ls, which will bring you to the Edge of the Bank. From hence you may pals over the Bank in 2 and 2 \frac{1}{2} Fa. and in fome Holes you will find 3 Fa. You must keep a good lookout upon the Bank, for fear of the lunken Shoals, which lie in some places very thick; they are easily seen before you come at them, the Water being very clear, and they steep too. In anchoring here in the Night choose a good fandy Birth. The distance from one Edge to the other thwart the Bank is but about 10 Ls in that place.

If yo merica, whole V endeavo 25 d. 2 Point o and eafy Sand-hi Ship's 1 Blafter. will fee broken fage the here:) f fee an If Harbon Veffels, Water. Rocks, visible, thence Allo yo

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the Island, as at Bluesield Bay, Hudson's Hole, and at the Mouth of the River Cabarito; but these are only used on Occasion: The main Center and Port for Business is at Port Royal; and the going from thence being so much more difficult than the coming to it, 'tis needful to give some Directions for that part.

Royal for England, thro' the two Grand Courfes, viz. indward Passage by the Bahama Islands to Exuma.

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If you are bound to Providence from the Continent of America, your furest way is to make the Island of Illuthera. whole Westing is about 30 Ls from the Capes of Virginia; endeavouring to fall in with Illuthera in the Lat. of about 25 d. 25 m. N. which will bring you about o Ls from the W. Point of Illuthera. The Land hereabouts is very remarkable and eafy to be known; it having two white Spots, Cliffs, or Sand-hills on it, they being upon the highest Land, a large Ship's length from each other; they are call'd the North-IVe/t Blaffers. Alio 2 Ls N.W. by W. of them, along Shore, you will fee a Hill refembling a Dutchman's Thrum-Cap, with broken Land near it, and a Cut or Gap as if there was a Paffage thro', call'd the Cow and Bull (the Island is very narrow here:) from thence steer N.W. by W. about 4 Ls, and you will fee an Island with several small Cays to the northward, it is call'd Harbour Island, with a Passage in, at the S. end of it, for small Veffels, having a fine clear fandy Bay, with curious green Water. At the N. end of the aforefaid Caysthere is a Ledge of Rocks, lying about 2 Miles off, which by day-light is very visible, and which you must be very careful to shun. From thence your Courle is W. and W. by S. about the Land 2 Ls. Alfo you will find another Ledge of Rocks, which lies from the Shore a large L, which also is visible: You may see these Rocks under you in 15 Fa. if you borrow near to them.

About 5 Miles from thence W.S. W. half S. lies another Ledge, which is at least 5 Miles from the Shore: From thence your Course to Providence is S.W. about 14 Ls. The Stream here generally fets to Leeward. If you keep up S.W. by S. you cannot well pass by it, without seeing the Houses on the Shore. On a Hill near the Town stands the Church: You may plainly fee it 4 Ls off; fland in with it, within a Mile and half of the Shore: Then you may fee Hog Island, which makes the Harbour; bear down along by it, till you come close a board the W. Point; then luff in within a Cable's length of it, and you will prefently come into 4 Fa. Water: If it is with the Tide of Ebb, you must anchor; if Flood, you may turn up, taking care to shun a Rist of Sand, which comes away from the aforefaid Hog Island, and stretches clear up the Harbour above the Caftle, half a Mile: The Channel lies nearest the Cattle, being about two Cables length broad. You may anchor above the Castle in 3 Fa at low Water, sandy Ground.

If

Sailing Directions from Jamaica to

If you are bound for Providence, thro' the Gulph, you must take care of Berry Islands to weather them; they lie from Providence NNW dist. 18 Ls. From Berry Island to the Bahama Island on the lesser Bank, the Course is N.W. by N. dist. 33 Ls, steering about 7 Ls to the eastward of the W. end of the grand Bank.

It you are at the W. end of Grand Bahama steer away N.W. about 8 or 9 Ls, then you may steer N.N.W. directly for the

Island of Providence.

Some general Directions for failing from Jamaica thro' the Gulph of Florida.

Note, That upon the Full and Change, the Current sets so strong to the northward between the Leeward Islands and Jamaica, that the Allowance of 5 per Cent. is but sufficient: From Port Royal Harbour to Portland Point the Course is S W. about 10 Ls. Give this Point a Birth, and then steer to the W. end of the Island of Jamaica; your Course thither is about W. by N. 26 Ls. This W. end of Jamaica is

pretty low Land.

Note also, That all along from Port Royal to Point Nearil. within 4 Ls of the Shore, you have from 16 to 20 Fa. From hence direct your Course for the Grand Camaines, which lies from the W. Point of Jamaica W.N.W. about 46 or 47 Ls. The Grand Camaines is a large Island, low and smooth Land, with Trees on the top: The Shore is bold, there is good anchoring on the Bay on the N. side, as also at the W. end of the E.N.E. about 20 Ls from the Grand Camaines, lies two other Islands, the one call'd Little Camaines, and the other, which is the westermost, the Camin Brack. These Iflands, as also the Grand Camaines, are much frequented by the People of Jamaica for catching Turtle, with which these Islands are well stored. From the Grand Camaines it is usual for Ships to direct their Course for the Island of Pines, endeayouring to fall fomething to the westward: in doing of which be fure to haul westerly enough, at least a Point of the Compass more westerly than the Charts lay it down, by reason of the Current that lets strong to the northward out of the Bay of Honduras, which if you should not take notice of will set you upon the Jardains, which are very dangerous Shoals and From hence direct your Course for Cape Corientes, your Courle thither being W. about 18 Ls. Cape Corientes is low smooth Land, with Trees on the top, as is all the W. end of Cuba on both sides, for many Ls to the windward, having not any notable Hill, Vallies, or Hummocks; and therefore 'tis very hard, if not impossible, to distinguish one part from the other. From Cape Corientes steer away W.N.W. about 15 Ls, which will carry you about 5 Ls to the westward of Cape St. Anthony, or as the Spaniards call'd it St. Antonio, and clear of the Shoal of Cape Antonio also. This Shoal runs along the Shore both to the fouthward and northward, but is

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Sailing Directions from Jamaica to the Bay of Mexico, peachy, and the Gulph of Honduras, and to Porte

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not very dangerous. This Cape may be known by two or three round large black Look-out Houses on the Shore-side, or near about it. From the aforefaid distance of 5 Ls to the westward of Cape Anthony, steer away N. or N. by E. And after you are come about 20 or 25 Ls from Cape St. Anthony, you may venture to stand away E. or E. by S. ranging along the Cuba Shore if you can, till you come the Height of the Havana; and be fure not to put over for the Gulph, till you are at least as far as the Havana. Then supposing you to be in an Offing of 10 or 15 Ls from the Shore, steer away N.E. by N. till you open the Gulph, and till the Grand Bahama Bank bears from you due E. at the mean distance of about 12 to 15 Ls: Then go fair with the Gulph due N. or at most N. by E. in which Course 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 should offer to put for the Gulph sooner, you may be put to the westward of Cape Florida: And as the Winds generally 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 those who have Occasion to sail by the W. end of the Isle of Cuba, it is needful to inform them, that when they are a-breast of Cape St. Authory, suppose at an Ossing of 5 Ls, which it is ordinary to give the Cape, because of the Shoals upon the Coast of the Island along the W. end; when, I say, you are 4 to 5 Ls a-breast of the Cape, the Shoals call'd the Calloredoes lie about 15 Ls N.E. by N.

The Calloredoes are very dangerous Sands, which lie off in the Sea at that distance: Some of them are dry at low Water, and others lie in 2 and 3 Fa. yet you will fee no Rippling or Breach of the Sea upon them.

Bring the first Hummock, or high Land on the W. end of Cuba a-breast of you, due E. or E. by S. and the low Land S.E. by E. and you may be sure you are clear of the Coliore-does to the eastward and N.eastward of them. Some have suggested that these Shoals thrust out a Tail of Sand, which runs all along the N. and N.W. side of Cuba as far as the Entrance into the Havana; but they have no Soundings upon them to shew it, or to direct where to find them: So that if it is so it must be close under Shore, where sometimes we find it slat; but we see no reason to think those Flats have any Communication with these Sands, which lie so far off.

If you are off of Cape St. Anthony in a N.E. Course, and apprehensive of coming upon the Colloredoes, keep your Lead going, for there is very good gradual Shoalings upon them, and you may easily perceive when you are near them; for you will find from 25 to 15 Fa. excellent sticking Ouze; then to 12 Fa. clean Sand; and then stand no nearer W. but steer away E.N.E. as above, till you are clear of Cape Bonavista: Or if you would go without the Colloredoes, your Course is N.W. by W. from St. Antonio, till you are sure by your Latitude that you are to the westward of them, keeping your Lead also as long as you are in the Soundings of the Shoals.

ay of Mexico, and from thence to the Bay of Camas, and to Porto Belo, and Cartagena exclusive.

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Sailing Directions from Jamaica to the Bay of Management, and the Gulph of Honduras, and

R O M Cape Florida to la Vera Cruz, and the Island of St. John d'Ulua, we have little Navigation along the Shore, and consequently no Survey of the Coast, but shall give the best Account of it we can.

The Commerce that way feems to be cut off by the Agreement of the Nations inhabiting the Coast; there being no Communication between the Nations of Europe and the Peo-

ple of these Countries.

The Navigation to the Gulph of Mexico, and the Shores S. of that Gulph, is either by the Spaniards from Europe, and carried on by the way of the Havana and the W. Point of Cuba, or by the English from Jamaica: Both are much the same, seeing the English from Jamaica must pass in sight of Corientes on the W. end of Cuba, in their Passage to la Vera Cruz, and the Spaniards must come from the next Cape, that is, St. Antonio S. which is much the same.

Being bound from Jamaica to la Vera Cruz, take the former Direction as far as Cape Corientes, as if you were failing to the Gulph of Florida: But as foon as you make Cape Corientes, or at least are a breast of the Cape; go away W. by S. for Cape Catoche, which is the first Land you make on the Continent, being the N.E. Point of Tucatan, dist. 44 Ls. Between these two Capes the Current sets always strong to the E. especially upon the Full and Change of the Moon; and this is the Reason of directing you to keep so much to the northward.

When you are shot over to the Bank of Cape Cateche, you will have gradual Soundings home to the Shore all along the Bank, so that you may Coast it in 5 Fa. or haul off, and then proceed in 7 to 8 Fa. or more. The ordinary Course is to keep off, and go along the Bank in 14 Fa. keeping that depth till you come to Cape Condecedo, which is from Cape Catoche

of the Compais reason of the of the Bay of of will fet you ous Shoals and Cape Corientes, ape Corientes is sall the W. end windward, hacks; and therenguish one part away W.N.W. ato the westward it St. Antonio, This Shoal runs orthward, but is the Havana; but they have no soundings upon them to shew it, or to direct where to find them: So that if it is so it must be close under Shore, where sometimes we find it slat; but we see no reason to think those Flats have any Communication with these Sands, which lie so far off.

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90 Ls. You must be sure not to go without 14 Fa. for in 17 Fa. you will be in danger of the Rocks call'd the *Alcranes* where you have the very depth of 17 to 18 Fa. at one Cast, and before you can heave again run fast on Shore.

There are other Shoals call'd the Sifals, which lie nearer the Shore: if you would avoid them in this Course, either keep in 7 Fa. which carries you within them, as before, or in 12 to 14 Fa. which carries you clear without them, and fairly within the Alcranes also.

Thus if you exceed 7 Fa. you fall on the Sifals in 9 Fa. If you exceed 17 Fa. you fall on the Aleranes; and if you exceed 19 Fa. you fall immediately into 25 Fa. and so will run upon the Triangles; for you will have from 19 Fa. at one Cast to 25 Fa. and at the next Cast be a-shore upon the Triangles, or the Aleranes, for there is no less depth close to them.

From Cape Catoche to Cape Condecedo'tis all low Land, and the Coast lies so on to Triest; 'tis so low, that you can but just

From Triest to la Vera Cruz your Course is S.W. by W. half W. the distance 106 Ls: So that from Cape Course is almost 200 Ls. This last street is create the next Bar of Campeachy. This Course brings you to a figure for the whigh Mountain call'd St. Martin, which may be the last the Island call'd Partido. Hence steer N.W. by W. to go without the Cabestee: if it be by night, come no nearer than 35 to 37 Fa. for in 32 Fa. to 33, you will feel the Current setting surrously on upon them within a L of them.

From hence to the Entrance into Vera Cruz, the Course is S.W. by S. and S.W. to the Isle of Branco: Keep the Island on your Starboard-side, and with the same Course run in for the N. n. Main.

Main, where you will find about 7 Fa. Then you will fee St. John d'Clua, dift. about 3 Miles and half, and may have a Pilot for the Place. But to go directly to I era Cruz, leave all those Shoals which lie E. of St. John, on your Larboard-side; and keeping in 17 Fa. at least, lust round the Gallego Sand, and go on that way to the Road, where you may moor your Ship under the Castle Wall in 5 Fa. good Ground.

N. B. Vera Cruz is in Lat. 19 d. 30 m.

N. B. Here the Current fets very violently to the N. as high as Lat. 27 d. along Shore; and then rounding the Bay, runs to the eastward to the Gulph of Florida, as is faid above.

Cife Catocke on the S. and Cape Florida on the N. make the Gulph of Mexico: The first lies in Lat. 21 d. 15 m. and the latter in 24 d. 45 m.

We have already directed the Course from this Cape to Ve-22 Cruz in the Gulph; but 'tis necessary to take some notice

of the Coast of the Continent also.

Just opposite to Cape Catoche E.N.E. dist. 3 Ls, lies a small Island called by our Sailors Loggerheads Key; for Key, or Cay, in these Parts of the World signifies ordinarily an Island, or Rock above Water, as we have often observed, as Pulo, or Poulo, does on the Coast of Siam and China. Our Seamen, its supposed, call it so, because of a kind of Tortoises, or Turtle, they usually kill there, which they call Loggerhead Turs the; what the Spaniards call it we know not.

The Cape it felf also is in an Island, a small Channel running between it, and the Main; you may pass freely theo' the Channel between Logger head Island and the Cape, but not in that between the Point and the Main. The Cape it felf is low, but rifes as you look farther up the Country: 'Tis cover'd with Trees of several forts, but especially Logwood Trees; tho those nearest the Sea are cut down, and the Logwood has been carry'd off by the English Logwood Cutters many years ago.

From Cape Catoche the Course is nearest due W. along the N. Coast of Tucatan to Cape Condecedo, dist. 80 Ls, according to some, 90 Ls according to others. The Shore is very plain and level, without any high mountainous Lands, or any Bays or Capes considerable.

The first place of note W. of the Cape is called the Mount, dist. 14 Ls: and 'tis the more remarkable, because, as I have faid, there is no other high Land thereabouts; and this Mount is not a natural, but an artificial Hill; for what purpose, or by whom made, is not our business.

Here are also large Cisterns for holding Rain Water, for there are no Springs, nor any fiesh Water to be had; but as there are no People there now, those Cisterns are of no use.

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 should feem to be a kind of Salt-Petre.

Upon all this Coast you see several sinall Spots of Mangrove Trees, which look like Islands, and you must be cautious that you are not deceived, and take them for Islands: for when you come nearer, you will discover it to be all joined to the Continent.

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Look-out to Cape Condecedo is about 8 Ls; and due N. from the Cape, dist. 20 Ls off at Sea, he the Islands called Islands des Arenas, of which I have taken notice in the failing Course from Janaica to Vera Cruz. The Coast is all a sandy Strand, with some Mangrove Land, and some Savanna's, (that is open Plains, or Grass Ground.) The Country within they tell us is inhabited, but upon the Coast there are sew People, and none that continue there.

The Sea deepens here gradually from the Shore, and Ships may anchor in good fandy Ground in any Depth from 7 or 8 Foot to 10 or 12 Fa. Nay, in some places on this Coast, the Seamen calculate their Distance from the Shore by the depth of Water they are in, and so measure the Ossing by the Lead, allowing 4 Fa. for the sirst L, and for every Fa. afterward a L more: So that if they had 10 Fa. Water, they must be 13 Ls from the Shore, that is, 4 Fa. for 1 L, and 9 Fa. for 9 Ls more.

This Cape Condecedo is the castermost Point of the great Bay of Campeachy, a Place render'd famous by the many Adventures of the most desperate fort of People in the World, namely, the West India Privateers, Buccaneers, or Free-booters; who for many Ages made this Place their Rendezvous, on pretence of cutting Logwood.

The Bay of Campeachy is a deep Gulph of the Sea, bearing in upon the Land, in some places more, in some less, full of Inlets, Lagunas, Rivers, and some of them large and navigable, with several Islands, Harbours, and good Roads, with Shelter for Supping of any size. The Extent of the Bay is from Cape Conducedo E. to a Point which shoots our from the Highland of St. Martins W. dist. from the two Points 120 Ls.

To take it in pieces a little, from Cape Condecedo to the Sa-linas 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; yet even here, digging in the Sand a little above high Water Mark, you may always find good fresh Water, if you dig not above 4 to 5 Foot.

The Salinas is a very good Harbour for finall Vessels, such as use the Salt-Trade; but there is not above 6 to 7 Foot Water in it. The Salt-ponds lie close to the Water Edge within the very Harbour, and yield abundance of Salt.

From the Salinas to the Town of Campeachy the Course is S. by W. dist. about 20 Ls. The first 4 Ls upon the Coast is drowned Mangrovy Land. 14 Ls from the Salinas towards Campeachy, is a Hill called Hina, under the Lee of which the Buccancers usually come to an Anchor.

About 26 Ls N. from Hina, and 30 from Campeachy, lies off in the Sea a certain Cluster of Islands mentioned before, called the Triangles, from their Situation. There is nothing to be faid of them, but that there they are; which when the Sailor knews, it is his business to keep off of them.

From Hina to Campeachy is 6 Ls W. 'tis a tolerable large City, and a good Port, and the only Town of note to be feen on the Coast from Cape Catoche to Vera Cruz, at least that lies open to the Sea. There is a Fort which commands the Entrance of the Harbour; and they that would go in, must

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any Bays or Capes confiderable.

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Midway between Cape Catoche and Cape Condecedo is Rio de la Gartos; it is to be known by two Groves of high Mangrove Trees, one on each fide: the River is only navigable for small Boats, Canocs. at d fuch like; the chief benefit of it is, that the Water is fresh, which is all the fresh Water you meet with from the Cape to within 3 or 4 Ls of Campeachy, which is above 120 Ls: so that it is no wonder the Country is defolate and without People.

There were formerly fome Spanish Fishermen here, who had finall Huts on the Coast, and were serviceable on occasion to Ships in Distress: But fince the Free-booters and Logwood-Cutters have frequented this Coast, they have so often used these Fishermen cruelly, and carry'd them away too, that they have almost forsaken the Coast, and those sew left are very shy

of Europeans.

W. from Rio de Gartos there is a Look-out, it is a high Building, fomewhat like those mention'd so often on the Coast of Old Spain in the Mediterranean, called Fire-Towers: it was built by the Spaniards for their Slaves or Indians to watch in for Ships coming upon the Coast. Some of them, as this in particular, are built of Timber from the Ground; others are like Summer-houses, or great Cages up in high Trees, big enough for a Man or two to sit down in, and with a Ladder to go up; which Ladder they pull up to them when they are lodg'd. There are abundance of them upon this Coast. This is called Selam; and there is another of the same, but built up in a Tree about 3 to 4 Ls farther, called Linebanebee, from an Indian Town of that Name 4 Ls within the Country.

The Coast from Selan to Linchanehee is full of little Saltponds, the biggest not above 10 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 Sifal, the highest on all the Coast, which is a good Seamark, and makes at a distance like a Ship's Sail. From this

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ill of little Saltd 6 Yards broad, load Salt, as another Look-out ich is a good Sca-Sail. From this

The Salmas is a very good Harbour for finall Veffels, fuch as use the Salt-Trade; but there is not above 6 to 7 Foot Water The Salt-ponds lie close to the Water Edge within the very Harbour, and yield abundance of Salt.

From the Salinas to the Town of Campeachy the Course is S. by W. dift. about 20 Ls. The first 4 Ls upon the Coast is drowned Mangrovy Land. 14 Ls from the Salinus towards Campeachy, is a Hill called Hina, under the Lee of which the Buccaneers utually come to an Anchor.

About 26 Ls N. from Hina, and 30 from Campeachy, lies off in the Sea a certain Cluster of Islands mentioned before, called the Triangles, from their Situation. There is nothing to be faid of them, but that there they are; which when the Sailor knows, 'tis his bufiness to keep off of them.

From Hina to Campeachy is 6 Ls W. 'tis a tolerable large City, and a good Port, and the only Town of note to be feen on the Coast from Cape Catoche to Vera Cruz, at least that lies open to the Sea. There is a Fort which commands the Entrance of the Harbour; and they that would go in, must come close under the Guns.

From Campeachy the Course is nearest due S. dist. about 10 to 12 Ls to Champetan, a famous Port formerly for Logwood Cutting, but now worn out: and from Champetan S.S.W. or S.W. by S. dift. 18 Ls, lies the Harbour of Port Reyal. the Midway between is a River, in the Mouth of which is a imali Harbour called Bocca de Efchondido, or the opening of th River Eschondido.

eart Royal is the Entrance into a great Salt Lake, which is one of those called the Lagunas: the Lake is 9 to 10 Ls long, and 3 or 4 wide, having two Mouths one at each end. This Entrance of Port Royal has a Bar thwart 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 feveral good Bays and Anchoringplaces, where Ships ride very fecure, and have very good Landing and Loading.

Ships generally anchor on the Weather fide of the Entrance, that is, on the E. fide next to Champetan: and this is done for Convenience, to ride by certain Wharfs made by the Logwood Crears for Loading, but chiefly to be out of the Stream of the Tade, which runs very strong both in and out in the

Mouth of the Laguna.

From this part the Land trends away W. and holds it fo, near 70 Is farther, to the Coast of Guanaca. On the W. side of the Harbour is a low swampy Island, called by the Seamen Firt Royal Island; it makes one fide of the Passage in, as the main Land does the other. This Island which is distinct from the other, is about two Miles wide and three Ls long, running due E and W.

On the W. fide of this Port Royal Island is another finall low Island, called Triest, parted from the other by a finall Creek, scarce broad enough for a Canoe to paddle thro': This Island is reckon'd about 3 miles wide, and at least 4 Ls long, stretch-

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Sailing Directions from Jamaica to

ing E and W. over-grown with low bushy Wood, and some very high Palmetto Trees. At the W. end of the Island you will find good fresh Water, if you dig but 5 to 6 Foot deep in the Salt Sand on the Sea Shore; if you dig less than 5 Foot, the Water is brackish and salt; and if you dig above 6 Foot, it is salt again.

This Island was well peopled with English, when the New England Ships used to come for Logwood: The large Ships which drew 16 to 17 Foot Water, usually rode close to the Shore in the Channels of Triest; and in 6 to 7 Foot Water, simaller Vessels would run up to One-Bush Key, which was 3

Ls farther in.

There is another Entrance into this Lagune, which is between Triest and Bees Island, in the Place called One-Bush Key: This 2d Entrance is about 3 Miles wide, it is shoal without, and has only two Channels to come in at; the deepest has not above 2 Fa. Water, no not on a Spring Tide; the W. Channel has about 10 Foot Water; and pretty near Beef Island you may run in with the Sea Breeze, but you must keep your Lead going all the way. Being shot in from the Point of Beef Island, you will find 3 Fa. then you may stand over towards Triest, till you come near the Shore, and then anchor as you please: Any where between the Island and the Point you have good Ground; the only Inconvenience is, that the Tide runs very hard in.

This is the reason why the *Spaniards* call this Lake the *Laguna Termina*, or the Lake of Tides, for the Indraught is very sharp. There is a kind of a *Vare*, or Thorowsare here; and small Vessels go in at one end and out at the other: but

this is not often.

There are feveral Creeks and Rivers, and finall Inlets of Water in this Bay, befides those mentioned here, which small Vessels run into and out of at pleasure; of which one of the most considerable is the River Summasenta; it comes in on the E. side of the Laguna, as you come in at Port Royal: This River, tho small, is large enough for good Periaguas and Shallops to enter; the opening is on the S. side, near the middle of the Laguna: it was named from an Indian Village at the Mouth of it; but the Village is lost since that, as was another near it called Chaquebul, 7 to 8 I.s up the Fresh; and all the Land on both sides yields a vast quantity of Logwood.

Croffing the great Laguna, you come to One-Bush Key, as 'tis called, tho it fignify only One-Bush Island; and 'tis called One Bush, for having one Tree with a large bushy Head grow-

ing upon it.

The Island, or Key, is not above 40 to 50 Paces long, and about 5 or 6 Yards broad; so that 'tis a very little place; yet 'tis a good Road or Harbour for small Vessels. The Island seems only a great Heap or Shelf of Shells driven together by the Current, and beaten up by the Storms to lie above high Water Mark; it is about a Mile from the Shore. Opposite to the Island opens a Creek, which looks like a River, but is only a Channel out of this Lake, into another very great one; on the Shores of the other Laguna the Logwood is cut, and the Boats toy it thro' this Channel to the Ships riding at

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the River, and there is good anchoring in feveral of the Reaches as you go up, in 3 to 5 Fa. 6 or 8 Ls from the Sea. In the rainy Sealons the Freihes are fo strong in this River, that they not only check the Tide of Flood, but you may take up fresh Water a good way without the Bar. The Town of Villa de Mose lies on the Bank of this River, and small Barks come to There are several other Towns up the River, but no Navigation except for Sloops and Periagnas. This is the Cocao Country, and here they thip great Quantities every year for Old Spain; which brings abundance of Sloops and Barks to the

The Coast continuing E. and W. the next Place of note is the River Chikapeque: the Course from Tabasco is due W 7 Ls: the Shore is a clean Strand, the Land low, and over-grown with very high Trees: Here are feveral good Roads, the Coast all clear, and good Shoalings; 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 Coasters, which generally ride for half a Mile by the Shore within the Bar.

5 Ls from this River, the Course still W. comes in the River Palmas; and from Palmas 2 Ls farther lies the Point called Halover, or Haul-over, a Name given by our Seamen, because here they usually haul'd their Canoes over, out of the Sea 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, diff. 7 Ls from Halover; there they have a convenient place to careen their Ketches, and small Barks, and where our Peo-

ple often run in for that purpose.

From hence to Tondelo is 5 Ls, due W. the Shore is all this way the same as before, a clean Strand, and the Land woody and low, so that you cannot make the Coast from the Sea at above 4 or 5 Ls Offing.

This River Tondelo is navigable for Barks and Ketches of 50 to 60 Ton, tho there is a Bar at the Entrance; but the Channel is deep and crooked, and full of thort Reaches, to that there

are several 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 must go in under the E. Point; but when past the Bar, you have a fair Channel for 3 to 4 Ls, and

large Periaguas go up many Ls farther.

From Tondelo to Gnasickwalp the Course is still due W. dist. This is a confiderable River, and of the longest Course of any on this Coast; yet 'tis not so broad as the Tabasco, tho the Channel is deeper: There is 14 Foot Water upon the Bar, nor is the Sea upon the Bar to dangerous as at the River of Tabaseo. When you are in, the River is navigable for the largest Ships; and there are very good Anchoring-places in 10st Ground, and with 5 to 8 Fa. Water: but as this River has been too much the Retreat of the Rovers and Buccancers, the Navigation is less used in the ordinary way of Trade.

N. B. 'Tis suggested that this River is navigable so far within Land, and has its Sources to near the South Sea, that a

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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 lost fince that, as was another near it called Chiquebul, 7 to 8 Ls up the Fresh; and all the Land on both fides yields a vast quantity of Logwood.

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W. of Triest is Beef Island, named so from the great number of wild Cows and other black Cattle, usually found there: 'Tis about 7 Ls long, and 3 to 4 broad: 'Tis of no other note, except for a fine landy Bay, where Ships ride in 7 to 8

Fa. well shelter'd.

W. from Beef Island, the River St. Peter and Paul comes down to the Sea; the eastward opening of which River washes the W. end of Beef Illand; the other Branch falls into another River called the Tabasco, which comes in farther W. and that Arm of the River Peter and Paul joyning it, makes the Land without be an Island also, stretching W. from Beef Illand, and called the Island of Tabasco. There is a Bar at the Mouth of the E. Branch of St. Peter and Paul River; but fmall Ships go over it with the Tides of Flood, and within

you have 2 ½ to 3 Fa. and very good Riding.

The Island of Tabasco is about 12 Ls in length N. and S. and about 4 broad E. and W. at the N. end. The W. part of the Coast is a fair Strand, with good Soundings, and a hard fine Sand quite to the River Tabasco, which makes the W. side of the Island: But here goes a great Sea up this Shore, because of the Trade-Winds from the N.E. and E.N.E. pouring in the Current from the Entrance of the Bay between Cape Catoche and Cape St. Antonio; that is, between the N. Point of Yucatall, and the S.W. Point of Cubi, directly upon this Shore: This Surge of the Sea causes the Landing here to be very dangerous, so that the Boats are oblig'd to go farther W. to the Mouth of the River; and even there the Sea goes very high upon the Bar, when the Ebb and the Wind meet together.

The Mouth of the Tabasco is about 2 Miles broad, and there is not above 2 Fa. on the Bar at low Water, and about 3 2 at high Water; 'tis the largest River on all this Coast of the Gulph, but of small use for want of People: The Tide slows up 4 Ls into

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N. B. 'Tis suggested that this River is navigable so far within Land, and has its Sources so near the South Sea, that a small Expence would open a Passage thro' and join the Commerce of the two Oceans: For the Sources of the River Teguantepeque, which falls into the South-Sea, are in the same Mountain, and not above 2 Ls from those of this River; and their Waters might easily be join'd, by cutting a Canal round the sides of the Hill, upon a level

with both Currents.

N. B. The Spaniards often 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 suppos'd to be navigable, without some help, quite up to their Sources.

For about 2 Ls beyond the Mouth of this River the Coast continues to lie E. and W. but then trends away N. for about 16 Ls to the Country call'd St. Martin's Land, which is a high Mountain shooting out in a large Promontory, and ending in a great Bluff Point, answering to the Cape Condecedo in Tucatan: So those two Boundaries make the Bay of Campeachy, so famed in the marine part of the World for the Adventures of the Freebooters, Buccaneers, and Logwood-Cutters.

From hence it is 20 Ls to Cape Alvarado, the Course W.by S. the Land high and rocky, and the Shore soul, with so great a Sea pouring in always upon it, that there is no landing upon it. Cape Alvarado is the E. Point of a River of the same Name, the Mouth of which is about a Mile wide, but the Water shoal, by reason of the vast Quantity of Sand thrown up by the Sea, sufficient to choak up the greatest River: These Sands lie for above 2 Miles off the Shore, yet there are two Channels kept open thro' those Sands, especially in the Winter, by the violent Current of the Freshes from the Mountains. In the best of these, which is the westermost, there is 12 to 14 Foot Water.

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The Land on each Point is fo rais'd by the Sand driven up by the Sea, that 'tis faid the Sand-hills are above 200 Foot high; the like I suppose is not to be seen in any part of the known World. On the W. Shore, just against the Mouth of this River, the Spaniards have a Fort of 6 Guns, on the Declivity of one of the Sand-hills.

At 6 Ls due W. from Alvarado there is another large Opening into the Sea, like the Mouth of a great River; but it feems it is a Branch of the fame River, and they tell us that Veffels pals in at one River, or at one Mouth of a River, and out at Thefe Openings are very convenient for the Navigation; for upon the Shore, all along from Point St. Martin hither, there is so violent a Surge of the Sea, that it is imposfible to land with any Boats, Canoes or Periaguas.

As the distance from Alvarado to this last Opening is but 6 Ls, upon a just Measurement, and that it is the same distance from this Opening to la Vera Cruz, 'tis strange that all our D aughts and Pilot-Books should call it 24 Ls; which is certainly wrong, and for which I have the Authority of feveral

good Authors.

I have therefore fet down the distance between Rio de Alvarado and Vera Cruz at 12 Ls, as I find it in Dampier, and others, who were thorowly acquainted with those Seas.

La Vera Cruz, by this Situation, is rightly placed at the S.W. Corner, or Bight rather, of the Bay of Mexico, at the very Bottom of the Bay: And 'tis apparently to, because from the very Nook where this Port stands, the Coast which lay E. and W. before, goes away due N. again, and holds it fo from this Port, which is in Lat. 19 d. 15 m. or thereabouts, to Care Roxa, in Lat. 23 d. 5 m. almost 250 Miles.

There is a very good Harbour, with several small Castles before this Town, and a royal Fort; the latter they call St. John de Ulua, and the Spaniards call the Town sometimes by the fame Name: it is now the grand delivering Port to the City of Mexico. From hence to Old Vera Cruz is 5 Ls, the Course N.W. This was the first Sea-Port for Mexico; but there wanting a Harbour, the Spaniards removed to St. John de Ulua, and afterwards the Town was removed also.

Next to Li Vera Cruz, lies the Rio Sempel; then follows Panta de Villa Rica, off of which lies a Ledge of Rocks call'd Sacrificia: Then follows Torro Blanco Tulate and Chano Almaria; these all lie in Lat. 20 d. 20 m.

Here the Land is low and flight: you will find, when having 6 La. hard Clay Ground, and nearer in, at 4 Fa. thelly Ground; will fee which lil along to thefe lie But towa

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ROM 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 first River to the northward of Panuco, is St. Bartholomew, which is but a final! River, and little spoken of: Then

7 Arms Country,

The E. whence 90 Ls in

for the South Coast of Florida.

Ground; if you should chance to fall with Terro Blanco, you will see a Row of Hills reaching S.W. into the Country, which likewise is call'd by the same Name. These Hills reach along to the showy Mountains N.E. and to the southward of these sie others, which in Appearance seem like Hay Cocks: But towards Villa Rica the Land and Hills are not very high. The Coast here is all full of Points and broken Land; and there is no good Harbours for a great way, till you come almost to Porto St. Pedros Pablo.

The City St. Pedros Pablo lies in Lat. 11 d. and if you come hereabouts, and are open with the River, you may then fee the Land of Tuspa, the Coast of which is very good, having several Bays, and all sandy. A little to the northward of the River are two small Bays, the northermost is the biggest; 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 Channel an Island call'd St. Paulus: Next to which, farther N. lie several other Islands, the chief of them are about Cape Roxo, and are the Island Lobos, and Baxo Tuspa, that is, the Island of Wolves, and the Shoals of Tuspa.

If you are coming from the Sea, and you fall with this Island, which lies before Cape Roxo, and is round about foul and dangerous, run in behind the Island, there is a good Road: This Island is low, and full of Palm Trees, affording likewise good fresh Water: And within it lies a Shoal like the Bottom of a Boat, behind which is good riding, that is, between the faid Shoal and the Cape.

faid Shoal and the Cape.

If you would fail from thence to Ville Ricke, you must go to the eastward of Baxo de Tuspa; and if you come not above it, you may run thro' between the Main and the aforesaid Shoal, in 8 or 9 Fa. You may also make good Road there if Occasion serve.

The River Tuspa may be known off at Sea by a Row of small Hills reaching N.E. and S.W. at least 15 or 16 Ls into the Country. About 5 Ls off Shore you will find Clay Ground; and on the N side of the Island de Lobos N.W. by N. is another great River call'd Panuco, in the middle of which lies an Island which makes two Entrances or Channels in: The southermost is call'd St. Stephen, and the northermost Hermosa, that is, Beautiful, &c.

Now we come to the wild Coast of Florida, of which you can have but a brief Account.

ns for the South Coast of Florida.

7 Arms or Rivers, which reaching a long way into the Country, vent themselves into the Bay.

The E. Point of the Bay is called Cape Qualata; from whence the Coast to Cape Escondido lies along E. about 90 Ls in length; the whole Coast almost full of small Islands

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you come to the River Palmas, and Piscadores, the Coast all along between, is call'd by the same Name as this River, because there is abundance of Fish on that Coast, and the Fishermen from Cape Roxo ply it continually with their Boats.

The next River to the Northward of Piscadores, is the River Brava, then the River Solo; betwixt which and the River Discondido, the Land trends off to Cape Blanco N.E. and from Cape Blanco it falls away again to the River Magdalena N.W. This is the largest River of all those to the Northward of the Panneo. From Magdalena to the River Plata the Coast lies along N.N.E. nearest; and they are about 25 Ls dist. one from the other.

The next River is called Suela, from whence the Coast of Baxo trends away N.E. and N.E. by E. till you come to the River Laofa; between which and Suela are two other small Rivers, tho there is no Description or mention made of them in any other Spanish Charts; we may therefore suppose them to be Places of no great Consequence. From the River Laofa eastward lie the Rivers Monatanhas and de Zerto; from which the Coast, till you come to the great Bay of Spirito Santo, lies along due E. Cape Cruz making the W. Point of it.

This is a deep and large Bay, having in the middle of the Entrance of it an Island, by which you may fail in on either fide: The Bay within spreads it self very wide, having 6 or

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The E. Point of the Bay is called Cape Qualata; from whence the Coast to Cape Escondido lies along E. about 90 Ls in length; the whole Coast almost full of small Islands and a sandy Bank reaching along the same, which makes a slat Shore, so that you must not come near it with a great Ship by six or eight Ls, except in certain Channels, which

are not eafy to find.

There are likewise several small Rivers on the Coasts as you are coming out of the Bay from the Westward: The first is called Matos de Salvador, betwixt which and the River del Canaverel lies another small River, but the Name we know not: Then follow the Rivers Arecifa, Plaia, Flores, and Arenas, all pretty large but not deep, and barr'd up at the Entrance, so as not to be navigable far in. Before all which Rivers, as aforesaid, lie several Islands, yet not dangerous. This is a good Coast, especially in Northerly Storms, where in the Mouths of any of these Rivers, or behind any of these Islands, you may lie shelter'd in those Winds.

From Cape Escondido towards Cape Florida, the Coast is full of Bays and Inlets, with several small Rivers, viz. Rie St. Paulo, Rio Cavallos, the Bay of Mirvello, and Spirito Sansto, into which flows the great River Mussisppi, at several large Mouths or Openings: and on the Shore of the Eastermost lies the Spanish Town of Pensacola; but we have no accurate Description, much less any Pilotage into those Openings, or for any part of that Coast, which is a deep Bay and very difficult; from thence the Coast reaches again S. with

many Bays and Creeks, till you come to Cape Florida.

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Sailing Directions for the Coast of Honduras, from of Darien inclusive; which concludes t



ROM the E. Point of the main Land of *Tucatan*, where we begin the last Course, the Land trends away S. and S. by E. to the Island of *Cozumel*: The distance is disputed here, as is that of *Vera Cruz* and *Alvarado*, between Map-measurement and Ex-

perience: The former, places them about 25 Ls afunder, and the latter 40: Whence the difference arises I shall not dif-

pute, and indeed cannot determine.

Between these, and 10 Ls S. from Cape Cateche, lie the Isles Mugeras, or Womens, or Men Eaters Islands. On the S. part of which on the Land side, is good anchoring in 7 to 8 Fa. clean Ground. The Island Cozumel lies parallel with the Shore, N. and S. dist. from the main about 1½ L, about 15 Ls in length, and about 4 to 5 in breadth, but narrower at either End. From the N. end of the Island runs out a great Riss of Sand above 7 Ls long, and 4 broad: if you would put in at this Island, coming from the N. you must steer from the Men Eaters Island S.E. by S. till you come the height of Cozumel it self, giving that great Shoal a large Offing of at least 8 or 10 Ls; and then you may stand right in for the Island. There are several little Bays on the E. shore of Cozumel, where you may ride secure from westerly and northerly Winds.

From hence the Shore falls off W. and the Coast goes away S.W. into the Bay of the Honduras. The Coast is all along slat and low, cover'd with Islands at a small distance from the Shore, so that there seems to be no coming into the true Shore of the Main; and if you make the Coast right off at Sea, you must not venture in with the Shore, for fear of being deceived by the lowness of the Land. This slatness of the Shore reaches from the Island of Cozumel N. to the Morrodos Diabolos, a Set of Hills call'd so by the Spaniards from the Buccaneers, who used to land here for Provisions, and whom they look'd upon as Devils for their cruelty, and therefore call'd them the plundering Devils, and the Hills so, from

their harbouring in them.

You may pass between the Islands Mugeras and Cozumel and the Main in a good Channel, having 5 to 7 Fa. but keep your Leadgoing, for there are Shoals on both sides; but the Fair Way, which is Mid-Channel, is safe and good.

As there is little Commerce on this E. Coast of the Honduras, so the Harbours are not considerable till you come past the Coast

of Tucatan.

The S.E. Coast of the great Peninsula of *Tucatan* makes the N.W. Coast of the *Bay of Honduras*: The opposite Shore of the Gulph is form'd by the N. side of the Country of *Honduras* it self, and bounded due N. by two Capes one behind another, tho at a large distance, viz. Cape *Honduras* and Cape Cameron, the one the N.W. Point of the other Peninsula call'd the *Honduras*, and the other the N.E. Point.

The Gulph runs deep in between these two Mains: So that 'tis

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one from each Point of the Bay; but keep Mid-Channel, and when you are in, 'tis all clear, and you may anchor where you pleafe.

In the Offing of the Bay of Trivigillo lies the Isle de Pinas, and within, a little to the southward, the Bay it self: it is a fair spacious Bay, and has several small Islands in the Mouth of it, which makes it good anchoring in the Bay it self, those Islands breaking off the Sea. The Bay is deep clean Ground, and in it there are several Creeks for watering with great convenience.

A little W. of this Bay is the Rio Dulce, and W. of that Cape Monchiquo, with a Bay, before which lies the Shoal or Rift of Sand call'd Salmadina; off of which to feaward lies the Island Utilla. These Places are all needful to be known to those who go in here; but they are so sew, that 'tis of no great use, for 'tis out of the way of all Shipping except of the Spaniards.

To fail from Trivigillo to Porto Cavallos, your Course is between the Shoals of Mahagueras or Mahamenas and the Salmadinas; but if the Wind should slack, and the Stream endanger your running on the Salmadina Sands, be sure to come to an anchor nearest the S. side of the Shoals, where you will have 7 Fa. Water. On the S. side the Ground is good, but on the N. 'tis dangerous and foul. The W. side of the Salmadinas lies S. of Utilla, and N. from Mingula. If you are bound out without the Islands into the Gulph, run suff 3 Ls N.W. off to Sea from Trivigillo, to get clear of the Mew; then N.W. by W. till pass the Mahagueros; and then run thro' between the Guayana and the Salmadina Sands, and you will go clear; but take especial care of the Island Utilla, for 'tis all foul on that side far out to Sea.

On the E. of all this Bay lies the Cape de Honduras, which is the N. Point of the E. Shore of the Gulph; it has in Lar. 16 d. or thereabouts; from whence most of those Islands mention'd above lie N. or N.W.

The Isle of St. Catherina lies from this Cape S. by E. being in Lat. 13 d. 15 m.

The Island Guanaja lies N. by W. from Cape Honduras, and has a Train of Islands running away from it W. and W.N.W. towards the Bottom of the Gulph: This Island also has some Shoals off of the N.W. side of it, nor is there any Road about it that we can recommend to an unacquainted Sailor; and as for Pilots, the Spaniards are so shy of any of the Enropean Nations, and so chary of their Coast, that tho they are but forry Pilots at best, you are sure to have none of their help.

The Harbour of *Truxillo* is at the Bottom of this Gulph on the fide of *Honduras*, 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 Hondurus, and between the Coast and Cape Gratia Dios, lies the Bay of Cartago: The

dos Diaboros, a Ser of Hills call'd to by the Spaniards from the Buccaneers, who used to land here for Provisions, and whom they look'd upon as Devils for their cruelty, and therefore call'd them the plundering Devils, and the Hills fo, from their harbouring in them.

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The Gulph runs deep in between these two Mains: So that 'tis a dangerous Bay, full of great Shoals and large Islands, some inhabited and fortify'd by the *Spaniards*; some not inhabited at all. On the Main there are no considerable Rivers, the Land which is narrow there not admitting it; but there are several Towns, and some very good Ports, being the Shore of, or near to, the rich Country's of Guatimala, Guaxaca and the Haduras, such as Porto Sal, the Bay of Triviglio, or Trivigillo, Truxillo, and several others, and the Islands of Pinas, Guayana, Lein, Guaiona, Vtilla, &c.

N. B. Cape Honduras is in the Lat. of 15 d. 50 m.

The whole Coast down the Gulph is spread with Islands too many to mention; and as they are of small Importance in Navigation, only to caution you to keep off the Shore, so we need only mention them, tho most of them he on or near the Shore of Tucatan, which renders the Coast altogether unsit for Commerce, the Shores being so dangerous, that none but such as are thorowly acquainted care to venture within the Gulph: Besides, the whole Coast from the Cays, which are two Islands on the N. part of Tucatan, is slat all along; so that coming from off Sea, you must not stand too close in with the Land, left you are deceived, and forced on Shore. The principal Islands on the N. or W. of the Gulph, are the Tlob, the Salamancas, the Lamanay; then the Zaratan, and the Pantoja, the Chetumal; and then the Quitazenbo.

All thefe Islands lie on the Coast of *Tucatan*, from the Island of Cozumel to the Bottom of the Gulph, with many others.

There are also some Rivers on that side, such as the Rio de Ino, Rio Bano, Rio Peche, Rio Dulce, Rio Desel; but they are all small Streams and of no consequence. At the Bottom of the Gulph on the S. side is the Porto de Cavallos, call'd so because a Ship loaded with Horses being driven in there, they were a bliged to throw them over-board. If you are bound in there, you must have great care of two Shoals which lie off,

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is and *Cozumel* and Fa. but keep your fides; but the Fair ood.

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the Spaniards suffer no body to come in there.

On the E. fide of the Continent of Honduras, and between the Coast and Cape Gratia Dios, lies the Bay of Cartago: The Shore here is a fine fandy Strand, and there is good anchoring in this Bay, occasion'd by several Islands in the Mouth of it, but especially one just in the Entrance, behind which is a very good Road.

There is also another Bay lying E. of Cartago Bay, call'd the Bay of Bibora, from the River la Bibora, which empties it felf into it: This is but a finall Place, and not fit to receive Ships of burden; but between them a little W. of Bibora, lies the Bay of Cotroe, larger than the first, tho not so big as the

Bay of Cartago.

S.E. by E. from Cape Honduras, distance by the ordinary Scale about 80 Ls, lies the Cape de Gratia, or Ciratia Dios, in English Cape Thank God, being the Point of Land extended from the S. part of the Province of Gnatimala, and E from the Country of the Honduras. On the W. fide of this Cape lies the Bay of Honda, or the Deep Bay. There are abundance of Islands upon the Coast of the Bay, but of no importance: In the Bay you may anchor fafely in 10 to 12 Fa.

The Shore of the Bay is a clean Strand, but there runs off a

Shoal from the E. fide or Point, which you must avoid.

There lie several Clusters of Islands off of this Coast, all the way between Cape Cameron and Cape Grazia Dios. befides what are mention'd above: as the Ifias I'mofus, off of the Bay of Honda, and the Dog Fish Islands to the northward of them, these last are only surrounded with Rocks and Shoals, and are dangerous to come near.

Likewise the Mew Islands, which lie thwart the Entrince into the Bay of Cotroe or Crotoe, and are, as the 12 3-1 166 Islands, all furrounded with Rocks, and very dangerous, espe-

cially in case of hard Gusts from the N. and N.L.

Between Cape Cameron and the Bay of Carrage, and reaching almost to both, there runs out a great Shoal, fueli as the Sailors usually call a Land Kill, for it extends close up a * () a

the Land for more than 15 Ls in breadth, and runs out into the Sea for near 40, but fharpening to a Wedge. On the S.W. fide of this Shoal, and within the middle of it, lie the Bayos, being 4 low Islands, and called so because they are low and flat; they lie cross the Sand parallel with the Shore: and on the N. fide lie fix other Islands called the Millians, or the Mecwen, also furrounded with Rocks.

Due S. from the Cape Gratia Dios, and at the extreme S.W. Point of the Province of Honduras, lies the Entrance into the great Lake of Nic. nagua, being about 45 Ls diff from the Cape S, and about as much from the Rio Veragua N.

Off from this Coast, at a great dist, in the Sea, lie several Islands, and Clusters of Islands, extending from Cape Gratia Dios in I at, 15 d. to Riol cragua in Lat, 10 d. 5 m. These are, 1. The Pearl Islands due E. from the Cape, and the farthest out to Sea, dist from the Cape 83 Ls, or thereabouts. 2. The Musquiteers, 1, ing in S.S.W. from the Pearl Islands. 3. Roncadores, due S from the Pearl Islands.

N.B. These Islands called the Pearls had once great resort

for the Pearl Fifting, but are now worn out.

Within those Islands, but upon the same Coast, lie the Islands of St. Andero, and the Catharine, two small Islands near together NE, from the Coast, bearing from Veragua NW, by N. about 26 to 2- Ls dift, and from Yunta de Naes N. and

N. by W. in Lat. 15 d. 12 m.

The Entrance into the Lake of Nicaragua lies S.W. from thefe Islands; the Passage or Channel in goes; several ways, occasioned by several Islands which lie in the Mouth of it. The Inland part being a fresh Water Navigation, does not belong to our prefent Work. The chief Paffage is between the 2 largest Islands, and is called Porto de St. Juan, or the Entrance of M. John : The Strait is called the Rio des a Guadero, or the River Guadero, which runs up 30 Ls within the Country to the City of Mr. Juan, where it opens into the great Lake, which is faid to be 80 Ls long, and 20 broad, of which we havegiven a Description in its place; it remains however to be added, as proper to this Part, that large Veffels fail up this River, and into the Lake, and the Trade carry'd on employs many Ships; but as the Spaniards admit no Navigation, except their own, and we have no exact Survey of the Lake, we can give no Description of the Depths, Shoals, Bays and Rivers, which are very many.

S.E. from this Entrance of the Lake of Nicaragua lies the River Veragua, and the Island Veragua in the Mouth of it,

being about 18 I.s.

The River L'eragua lies just within the Island running from the Province called the L'eraguas. the Port is very good, but the Island is foul, and therefore you must not depend upon it, or any place about it, for a Road: The best is on the W. and S. Sides towards the Main, where you may ride under Shore in it to 9 Ia. You are indeed fase here from the N. and easterly Winds, which are the most violent upon all this Coast.

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From the E. Point of the Entrance into Porto Belo, called Acada, he 4 finall Islands cover'd with Trees; but there is a bold Channel between them and the Shore. The like there is to the eaftward of the Bastimentos, where the Wind being

westerly, you may stand thro' with great safety.

Bring the Rock Cagada almost shut in with the small Island on your Larboard fide, and you may anchor there in 7 Fa. and half, only that you will lie a little open on your N.W. Quarter, if the Wind fliould happen to come in that way: To remedy which, a little farther to the W. is the Road of Agreea, which is much better fecured, and large enough for 8 or 9 Ships, but not for more.

N. B. You go in here about half a Mile to the westward. but run out by a narrow tho fate Channel on the E. fide of

the Road towards Nombre de Dios.

You lie here land-lock'd alfo by two or three pretty large Islands, and several small Islands besides those mention'd, and which at Sea make like part of the Main.

N. B. The Wind generally blows Trade here all day from

the E. and off Shore all night.

Here is another Road also call'd Grota, where you may anchor in 7 Fa. and where there are no Rocks or Shoals, or lefs than 5 Fa. any where near it: The Road goes in W. by S. by a very crooked Paffage, but you need not come back by the fame Channel; for there is another Channel more to the N. which tho narrow is fafe, and in which there is no where lefs than 5 Fa. the Wind generally blowing large out.

N. B. Your best anchoring at the Bastimentos is, when the great Rock Coguda bears about a Boat's length fre the Cay; there you have - Fa, allo in the Offing; when the Cays are W S.W. at the diffance of 2 Ls from you, there

you will have 25 Fa. Water.

In the Month of the Harbour going into the Bastimentos you have also 15 Fa. and at a long Flat Island, a little to the callward of Porto Belo, which is full of Mangrove Trees, you have 8 to 10 Fa. very good Ground, but to Leeward 'tis flat and foul, as may be feen by the Breakers; and all about the Islands 'tis the fame; fo that in the Road you must not anchor within half a L of the Island.

S.S.E. off of the Harbour of Porto Belo, or rather from the Cape castward of Porto Beb, lies the antient Port of Nombre de Dios, dift. from the Entrance into the former near 20 Miles.

Nombre de Dios lies at the Bottom of a large deep Bay; to the E fide the Bay is wide, and there is good anchoring any where in 5 to 8 Fa. clean Ground; but 'tis a bad Road in other accounts, especially as it lies open to northerly and northeafterly Winds, and that in a Country where those Winds al. most always blow, and which, when they blow hard, bring a high Sea into the Bay, and make it very bad riding.

On the W. fide of the Bay a finall River comes in; and without the Bay a little to the westward lie two or three small Iflands, which you must fail between if you would go into the Liver Shine weed to unland

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S.E. from this Entrance of the Lake of Nicaragua lies the River Veragua, and the Island Veragua in the Mouth of it,

being about 18 Ls.

The River Veragua lies just within the Island running from the Province called the Veraguas: the Port is very good, but the Island is foul, and therefore you must not depend upon it, or any place about it, for a Road: The best is on the W. and S. Sides towards the Main, where you may ride under Shore in 8 to 9 Fa. You are indeed safe here from the N. and casterly

Winds, which are the most violent upon all this Coast.

E. from Veraguas the Coast trends away to the Mouth of the River Chagre, the most noted River on this Coast, and considering how narrow the grand Isthmus of America is at this place it is of a long Course, for it is navigable by large Barks and Brigantines, within 5 Ls of Panama on the Shore of the South Seas: The Utefulness of this Navigation to the Commerce of the Country, and the Business that is carry'd on here, which is so very considerable, is not to our present purpose: as they suffer but very sew European Nations to go in here, its needless to say there are Pilots to guide them in;

From the Chazre the Coast goes away for 7 Ls E. by N to Porto Bell, or Porto Belo, a Place famous in Trade as well as in War; it is the best Harbour, and of the most importance of any on this Coast, as it is of use for the European Shipping for the Trade of the South Seas, but perhaps the worst for health

but for those that are admitted, the Pilots are always ready.

of any inhabited part of the World.

The Harbour is capacious for any number of Ships, and the Depth fufficient for Ships of any Burden: It is faid to receive 12 Rivers into it; we do not find fo many in any of the Charts or Geographical Descriptions of the Place, nor are those Rivers which fall into it confiderable, the greatest being not

navigable for Ships.

The Entrance into this Port is commanded by two strong Forts, and the Harbour by two more. After you are in, you may anchor in 6 to 8 Fa. good Ground, and close to the Shore, and in 10 to 11 Fa. in the Road farther off; 'tis all clean, no Rocks or Shoals, or Dangers of any kind.

L. from Porto Belo he the Kays or Rocks called the Bastimentos, leated as on purpose for the forming a convenient Road for Ships of War, to cut off the Communication between Porto Relo and Cartazena, no Ships being able to pass in or out of the former without being seen from the Bastimentos. Between the Island and some Rocks which lie S.W. you may ride with a whole Fleet of the largest Ships, having 18 Fa Water, and well secur'd from all Winds; but there is a Riff of Rocks off of the Bastimentos, which you must take care of when you go in, you will find it in Sounding. you flat the cho S the

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Nombre de Dios lies at the Bottom of a large deep Bay; to the E. fide the Bay is wide, and there is good anchoring any where in 5 to 8 Fa. clean Ground; but 'tis a bad Road in other accounts, especially as it lies open to northerly and northeasterly Winds, and that in a Country where those Winds almost always blow, and which, when they blow hard, bring a high Sea into the Bay, and make it very bad riding.

On the W. fide of the Bay a final River comes in; and without the Bay a little to the westward lie two or three small Islands, which you must fail between if you would go into the Bay. Great Ships used to unload part of their Cargo at the first of these Islands, and then go on to the second; but small

Ships commonly lie within all to unload.

If the Wind blows hard, Ships ride here upon Life and Death, with five or fix Anchors a head; for the Sea comes pouring into the Bay with fuch fury, that they are in danger of Foundering as they ride; oftentimes their Cables are cut by the Rocks, and they are in the utmost hazard of going a-shore: For this reason the great Ships left the place; and even still, if Ships have business here that requires any long stay, they will choose to ride at the Bastimentos, or at Porto Belo.

The W. Point of this Bay is shoal off, so that you must give it a large Birth, or you may be a ground. As you go into the Port, you will see a high Rock bearing N.W. from the W. Point; you must fail in under this Rock, then you go free of the Shoal under the W. Point.

S. by E. from the Cape of St. Blaize lies the River of Pines, bearing from the Island call'd the Gorda off of Port d'Alla W.N.W. dist. from the Isle of Pines 5 Miles, and from the Island Gorda to the E. end of the Isle of Pines is 7 Miles: There are abundance of small Rocks and Breakers, and foul broken Ground upon all this Coast for 40 Ls, as well eastward as westward, nor can you go in between the two Islands, tho 7 Miles alunder; but you may sail in at the E end of Pines in 5 Fa. and so pass on N.W. to the Island it felf, and anchor under the S. side of it.

From the River of *Pines* to the Island of *Pines* the dist. is 5 Miles, the Course W. by S. and E. by N. There is a fair Channel between the Island and the other Rocks, mention'd above, and the Main; but it is a Passage only for Sloops and small Vessels, not for great Ships.

The River of *Pines* is an indifferent large River, confidering the Coast; but there is only 6 Foot Water on the Bar, tho when you are over, there is 3 Fa a good way up.

W. a little northerly is the River Allabrehes, diff. from the Pines about 9 Ls; 'tis but a small River, only fit for Canocs.

Sailing Directions for the North Coaj

There is indeed 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 Creek of no Name or Importance; but 6 Ls W. by N. lies Afcension River, which is a River of Business, and navigable for Sloops and small Craft above 20 Ls into the Country, tho not at all for great Ships.

The Rocks and broken Grounds which reach along all this Shore to Golden or Gorda Island, are call'd the Sombelloes. From Ascension River the Land trends away to the southward, and then W. and afterwards to the northward to Point Sombello, which is distant from the W. Point of the River 15 Ls.

From Sombello the Land trends away to the fouthward again 5 Miles to the River Francisco, and to the northward 4 Miles to St. Blaes Bay, and from thence as before to Nombre de Dios. On the Hand it trends away E.S.E. towards the

Gulph of Darien.

Had the Scots Settlement at Darien continued, and been form'd into a Colony, as others of like kind have been, it is not to be doubted but that the Coast of the Gulph had been critically survey'd; and it had been of some Use, to have taken an Account of the Shoals, and Depths, and Capes, as in other Places: But that Affair is over, and the Place is become the same useless neglected Port as it was before

The Gulph of Darien hes 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 narrowest Point of the Ishmus: 'Tis a wide Inlet of the Sea, stretching it self in depth N. and S. full 60 Ls: The Entrance lies in Lat. 9 d. 9 m. The Opening goes in S. by E. at a Mouth of no less than 10 Ls wide, between two Capes or Points; that to the eastward is call'd Cape St. Sebastian, and

the westermost is call'd Cape Tibus on, or Tuberon.

At Cape St. Sebajtian the Spaniards had formerly a City, call'd by the same Name, but abandon'd by the Inhabitants for the unhealthiness of the Place, occasion'd by the incessant Rams and Calms which continue here; a Caution which, as was afterwards found, had been well given to the Scots before

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Sailing Directions for the North Coast of South-Ame Mouth of the River Oroonoko inclusive, to the



HE River Oronoque, or Oronoko, can be no farther concern'd in our Description of the Coast of America, than as relates to its Opening, and emptying it self into the Ocean; the Navigation of it as a River having never been enquir'd into since the

famous tho unhappy Attempt of Sir Walter Raleigh.

The Influx of this mighty River is in Lat. 9 ½ d. It may be faid to have many Mouths, occasion'd by several Islands which lie in the way; but there are properly two Channels, (that is

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their Attempt, if they had been cool enough to have accepted of it.

The Point of St. Sebastian is foul, and has a Shoal lying off; therefore those that go in here, give it a good Birth: It stretches out N.W. by N. into the Sea 10 Miles, and is very dangerous.

The Gulph is navigable for large Ships far in; and when going in, you are got to the westward of that Spit of Sand, you may run up the Gulph at Will where you please; 'tis all deep and fair, but 'tis best to keep Mid-Channel. In the Entrance of the Gulph you have 40 Fa. at 2 Ls within it shoals to 30 Fa. and then to 20, which continues for 20 Ls up the Gulph, and after that 18 Fa. up to the farther End, where it is reduced to 4 Ls in breadth. All this length there is good an-

choring on the E fide of the Gulph in 8 to 10 Fa. good foft Ground, but the W. fide is foul and rocky.

From the Bottom of the Bay the Channel which grows narrower there, goes away N.N.W. 3 Ls into the Opening of a large Salt-lake, the Mouth of which is 3 Miles wide, and has 12 Fa. and when past the Entrance 4 Fa. The Lake is a Round of about 3 Ls in Diameter; if you would go in here, keep the S. Point aboard; or if you keep off Mid Channel, be sure not to go farther off to the N. for the N. Point spits a Sand, which runs off above a quarter of the way thwart the Channel: But after you are entred the Lake, the Channel is good.

What other Rivers or Lakes there are within this Lake, are not to our present purpose, Navigation being little concern'd in them; 'tis enough that keeping to the W. and N.W. the Country has been found full of Rivers, and that after a narrow Passage over Land to the Rio Sancta Maria, the Entrance into the South-Sea has been found, which is but a little way, and the way easy; for they tell us 'tis possible to pass to Panama from the Lake of Nicaragua at the dist. of 15 Miles only over Land. In the mean time, as this is the castermost Point of the Ishmus, so here may properly be said to end our Account of the Navigation of these Bays, and therewith of the Coast and Islands of North-America.

of South-America, from Bocca del Drago at the inclusive, to the Gulph of Darien exclusive.

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may be s which (that is gueretta; and on the N. fide of Margueretta, between the Island and Punta del Rey, are two finall Islands call'd Coetza and Cubagua; the last is the biggest, but neither of them of any consequence.

There is good anchoring in the Bay on the infide of the Island Margueretta, but few Ships frequent the Coast. There was a Castle to defend the Road, but it is now demolished. On the E. end of the Island are many small Islands, 7 or 8 together, but of no moment; they lie between this Island and the Island Testigos.

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Sailing Directions for the North Coast of South-Am Mouth of the River Oroonoko inclusive, to the



HE River Oroonoque, or Oroonoko, can be no farther concern'd in our Description of the Coast of America, than as relates to its Opening, and emptying it felf into the Ocean; the Navigation of it as a Piver having never been enquir'd into fince the

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The Influx of this mighty River is in Lat. 9 \ d. It may be faid to have many Mouths, occasion'd by several Islands which lie in the way; but there are properly two Channels, (that is but two) which are known in Navigation.

The Pilots tell us in their Language, that the Mouth of this River is faid to take its Beginning from the River Amugora, and to reach to the River Sebarina, and from thence about to

the River Corobana.

This Account of theirs is to be explain'd thus, That the River divides it felf into feveral Branches far within the Country, and comes down into the Sca as if it were a Collection of many Rivers. But we must give the Account as they hand it to

us, or Sailors will not fully understand it.

Thefe feveral Rivers coming all into the Mouth of the great Orognoko, assist to convey the main Stream of that River into the Sea: Some of these Channels are passable by warping up by main strength against the Current, which is very strong; in others it is to fierce, there is no stemming it; and in some there is no Bottom, fo that no Anchors can be carried out to warp by.

The principal Channels found practicable are those of Sabarima and Corobana, or Caribbiana; the last lies in, N. by E. and S. by W. and this Branch or River has two Channels, which afterward meet again at the Island of Trinidade in the Mouth

of the grand River.

Cape Salinas on the Main, and the N.W. Point of the Island Trinidade, makes the W. Passage of the River Oroonoque; and this is that the Spaniards call the Gulph of Paria.

In this Passage are several finall Islands, and they again divide the Stream of the River into feveral Branches; as the Great Bocco, which is the castermost, and the Little Bocco, which is the westermost: The Great Bocco is about Gun-shot wide, but no Soundings, no Ground at 300 Fa. The Little Bocco is almost 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 Three Points, lying from Cape Salinas N. and N. by E. And from Cape Tres Puntas about 40 Ls W. by N. lies Punta del Rev, or Raya. From Cape Salinas to Cape Raya the dift. is 70 Ls: Between them lies the Island Marguerita, or Margueretta; and Punt. Cubagua; confequen

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Off from the S.E. fide lies a Shoal, reaching towards the Infland Cubagua mention'd above; 'tis a dangerous Sand, if many Ships were to come that way, but as in the little Navigation there is, the Fair IV ay lies chiefly on the other fide the Point, 'tis the less confiderable.

There is likewise a Bank, which lies from the W. end of the Island 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 Island was frequented by Barks from Cartagena for the Pearl-fishing, but its now worn quite out. The Island is moderately high Land, you make it generally at the dist. of 6 to 8 Ls at Sea: The Coast is bold, and you go into the Bay E. half a Point S. having to 12 Fa. Water.

Under the Punta del Rey is a famous Salt-pond, and on the E. side of the Point is a good Road, where you have 4 to 5 Fa. between the Point and the Island call'd Coet za, mention'd

The Island Margueretta is in Lat. 11 d. N. On the W. end of it lies the Island of Tortugas: As you make the Island, you may see both the Island Margueretta and the Main.

Tortugas is a dangerous Island; all the E. Coast is foul, ragged and rocky, full of broken Land and dangerous Cliffs, not fit for a Ship to come near: On the W. indeed it is a little more accessible, and there is a good Road under the N.E. Point. The W. end is full of Trees, which reach almost to the middle of the Island.

At the S.E. Point also there is a good Road, and there is a Salt pond, which, with a great Quantity of wild Goats, is all that is to be had here; for it is a naked Place on all Accounts.

Bocca del Drazo is faid to take its Name from the furious Current of the River Paria, or Oromogue, which breaks out here into the Sea, and which (the Island Trinidale repelling its Current, which would otherwife take its Course due E. or at most N.E. into the Ocean) is now turn'd away to the N. and makes its way out N. and N. by E. by this Cape.

From

From Breea del Drago to the Salt-ponds at Punta Rev the Courie is N half E. along the Coast; and between the Islands call'd the Testigos, and the ragged Shore call'd Tres Puntas W. of the Cape, the Land falls in S. and makes a kind of Bay, and an Island call'd St. Jain, or St. John: The Land is hilly and foul, till you come near the Salt-ponds, then it is a low Lan I and flat Shore.

When you are at this Point, you have the Island Margueretta to windward. In failing along this Coast come not nearer than 12 Fa for the Soundings are uncertain, and the Ground slat and uneven; so that you will not know where you are by the Lead, except you are bound in for the Road: Then you must work it out by careful Sounding. To the E. of the Point the Lind is low and plain, and there the Ships ride; there is no sieth Water to be had there, or in less than 3 Ls from the Point. This is call d the Coast of Temezneti, and by some New Granada; but New Granada hes farther up the Country beyond the Sea Coast.

The W. end of the Salt pond is steep high Land, and the S. and N. parts run in among the Hills, so that they are not seen upon the Coast: 'Tis what they call a natural Salt Production or Pond, and is so great, that a thousand Sail of Ships might load here, and not carry it half away. All the way from the Pond to the Road where the Ships ride, is hard and stony, and the Ground in the Road is not good; but to the castward the Ground is good. There is also another Salt-pond call'd the Little Pend, where is very good white Salt to be had: The Road is good, there being a foit Clay mix'd with Sand.

From the Panta Res there runs out a Riff of Rocks near a I into the Sea: If you would go into the Road before the Sait-, wir, and come from the S. you must give the Punta

Ry a good Birth, to go clear or those Rocks.

Oil of this Coast hes the Island of Blanco, without all the Islands mention'd above, and due N. from the W. end of the Island Margaeretta. On the E.S.E. Point of this Island lie Even small Islands, or rather Rocks above Water, call'd the Scent Disser. And on the S.W. Point lies a dangerous slink Rock, which should be carefully remember'd. It you come from the southward, and design to anchor under Isle Blanco, you must sheet to the W. side of the Island: You may fail boldly about the Point, as near as you please, 'tis bold and sheep too: When you come to the W. side, you have a good Real in o to 10 fa.

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to Wood and Fustick for Old Spain. About . Ls from this Bay to the westward he the Islands Peritas; and on the W. Point of the Bay, about a L from the Main, and as much from these Islands, lies a Shoal, which runs off in two Branches from the Coast N. To avoid them all, keep to the Islands, there is a good Channel and deep Water, 12 to 16 Fa.

A-breaft of the westermost Island there comes in a little River from the Main, call'd Crans; it makes only a small Creek for a Linto the Land, big enough to carry small Boats, Canoes. Sc. but not Ships. The Water also is not good, tho

not quite falt.

W. from this Creek is a Bay call'd Otchier, but no good Ground for anchoring in it; W. from which is Cape Caldere, on the E fide of which is a Bay with a tolerable Road. From this Cape there lies a Ledge of Rocks above Water. From the W. Point of the Bay begins the Coast of Carrichiko, or according to some Elmerode, and extending it felf W. to Cape Caldero. Cape Caldero is call'd the Histo Cape, because the Ding of Fowls which are continually here in innumerable Flocks, makes it so, otherwise the Rocks are rather black than white.

This is what the Spaniards call the Coast of Venezuela, some call it Coco; and the Port of the City of Venezuela is sometimes call'd Coco by the Spaniards, and reaches E. to the Fort of the City Canacas, and W. to the Entrance of the great Lake or Bay of Monacayho, of which in its place: So that the whole Coast reaches from Cape Alina and the Salt Ten Is about 130 Lis W. Here are many very good Harbours and Bays, but of small importance, because of a general decay of the Colonies, and of the Navigation on this Coast.

This First of Condeas is diff. from Cape Gallero about 12 Is, the Courie W. by N. Its fituate on the Sea Shore a little to the cashward of Cape Bluco, where there is a Bay, in which there is good anchoring in 10 to 20 Fa, and (which is very particular in this Place) it is well fitted by its Situation to keep oil the exectsive Swell of the Sea, which upon this Coast is so great, and upon a Northerly or N Easterly Windrums so very high, that a good Ship may be in danger of Foundering at an anchor.

But in this Bay you may ride fecure; the Cape, together with a Spit of Sand running out from the NW. Point of the Bay, breaking off the force of the Sea: The Land upon this Coast is so exceeding high, that it may be seen 30 Ls off at Sea; and some are, or Opinion it is as high as Pico Tenerisse in

the Canaries.

Due W. from the Road of the Caracas, and behind the Cape, is a small River, where you may have fiesh Water (which is very rare on this Coast;) but if you see any of the Indians, look to your selves; for besides their Treachery and Cruelty, they shoot poston'd Arrows. This River is call'd the Mina; and from the Month of it, keeping your Course still westward, is another River call'd the Camaira, the Shore all the way cover'd with Trees; then the River Tronsing, 3 Ls from which well are the section of the section of the section.

Rock, which should be carefully remember'd. It you come from the fouthward, and defign to anchor under Isle Blanco, you must sheet to the W. ide of the Island: You may fail boldly about the Point, as near as you please, 'tis bold and sleep too: When you come to the W. fide, you have a good Roal in a to to be ba.

The libred may be faid to be the first from the Cardbeer this way, and S.S.W. from the Island Granada, and from the F.S.³. Point of Islance to the W. Point of Granada is about 2015. The Road is good, but here is nothing to be had of

Refreshment, or fresh Water, but wild Goats.

I rom Tunta Rey the Land trends away W. to a Coast and Gulph of Cumana; but there is likewise a great Gulph call'd the Gulph of Canicco, and in that Gulph the River call'd Rio Cumo comes into the Sea: The Gulph runs in 12 or 13 Ls. Some join this and the Gulph of Cumana into one; and it may be just, if they recken the Gulph of Cumana to run 40 Ls within the Land: But as Navigation has nothing to do with it to fir m, we shall say no more to it.

Good Ships may go in as far as the Town of Cumana, and the Depth is good; nor do we find by any Accounts that there are any Dangers in the Gulph, going in or out, but

what are to be feen above Water.

The Vermineds will not admit Strangers to come to this Coast to load Salt at Cape Rey; and once they attack'd and actually dettroy'd several Dutch Ships for attempting it; otherwise they might bring a great Revenue from it, and abundance of Ships to use this Coast, and bring Trade to their other Ports alto. So the Port remains unfrequented, and the Salt lies in Heaps, uselds and good for nothing.

From Civiana, or rather the Gulph of Cumana, the Coast goes away W. by N. and W.N.W. between a continued Range of Islands and the Main: The Land is full of Points and Capes running out into the Sea, and consequently of Roads and Bays, Harbours and Gulphs, tho they are generally but small, except

as hereafter.

1. There is the Bay of Ma Ora, which is very wide, but not deep in, nor is there any place of note in it: There is good anchoring indeed in feveral places of the Bay, but all open to a northerly Wind

2. The Bay of Sunta Fe, in the Entrance of which lies a great Rock or Island, (for it is above Water) call'd Borats;

and without that he two more call'd Crocus.

5. The Bay of Maracapana, where there is the best Ground to anchor in, and the best secured of any Road in this part of the Coast: There is also good anchoring at Panta Gallet.

The westermost Point on this Coast is called Boratiras; from thence the Shore, which is all Rocks, falls off again to the fourhward to Commo Bay, and to the Town of Commagosta, or as some ignorantly call it Commo-yoda. On the W. Shore of this Bay is very good anchoring, and well sheltred, the Ground a good hard Sand; Ships come there to load Brasslet-

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From this River the Course lies W.S.W. to the Bay of Trifle, bearing with the Island of Bon Arra almost due S. and N. the said Island lying in between the said Island Barberota and the Pinita Saverio. There is very good anchoring in this Bay, and well sheltred from the Swell of the Sea, as also from the northerly and easterly Winds, which are the only dangerous Winds on this Coast.

From the Bay of Triflo the Land having for some time trended away northerly, and to the N.W. and N.W. by N. it turns again westerly, and rounding a great wild Forest-like part of the Country, where you meet with no Town or River for several Ls, goes away W. to Punta Sico, or Cape Seco, that is, the Sandy Cape; near which, in the Mouth of a small Bay, is the Island of Irequaqua: Then the last rounding again N.W. makes the E. Point of the Bay, or River of Taratura.

Westward from this Point of Taratura runs a great Shelf right off into the Sea; beyond which Shelf farther W.N.W. his Cape Romano, the most remarkable Cape of Land on all this Coast.

Between this Shelf and Cape Romano are two Places, but of finall note: 1. Flaves, a small Haven, where the Ground is good, but with no fecure riding, because of its being open to the northerly Winds. 2. Coco, where is a very good Bay and Harbour. From Coco the Coast thrusts out into the Sea for many Ls northerly, being the Coast of the Province of Coco, or Venezenda, to the Mouth of the great River of Marwaylo, call'd also the Gulph of Venezenda.

This Gulph is noted for its running above 85 Ls into the Land, and widening to a very great breadth, after it has gone near 40 Ls; but the Illands in the Entrance interrupt the Navigation in luch a manner, that the Sallois have little Occasion

Sailing Directions for the North

to inquire after it, the rest being practicable only by Sloops and Barks, and such small Crast as the Spaniards build in that

Country.

From this part of the Country of Coco, or the Caracas, the Coast goes away more to the northward, as I have said, to the Mouth of the Gulph, and then salls off again to the S. and S.W. to the Coast of la Hache and St. Martha, having but little notice taken of it by the Pilots, the chief Navigation here being among the Islands rather than to the Continent, which are some of them in the Possession of the European Nations, tho not of the Spaniards.

These Islands lie rang'd in a Line parallel with the Coast, and trending from the S.E. to the N.W. from the Bocca del Trago and the Island Margueritta, to the Island Oruba, at the

E. Point of the Gulph of Maricaylo, or Venezuela.

The first of those Islands, except those spoken of already, is that of *Orchilla*; it lies at the distance of about 15 to 16 Ls N.W. from the Island of *Tortugas*, in Lat. $11^{\frac{1}{2}}$ d. it stretches N.W. and S.E. about 8 Ls in length, and the N. side is soul and rocky. It is generally a low slat Island; yet on the E. side a little hilly; there the Seamen often go on Shore to hunt Goats for fresh Provisions, which they are in great want of on these Coasts.

The S. and S.S.W. fide is a fair Strand, steep too, and so bold, that you may almost lay your Broad-side close to the Shore. The Land is almost all faltish, so that here is no good Water to be had, nor indeed any thing else, but Shelter from northerly Winds, and Goats Flesh; not a Plant or a Tree, no

People, and no Trade.

W. and W. by S. from Orchilla lies the Island la Roca, dist. from the Main about 24 Ls: and from Orchilla 6 to 7 Ls. On the W. side of it lie three or four very little Islands, and several Shoals and dry Rocks stretching far S. of which you need take no other notice than to steer out of the way of them. You may see the Main from these little Shoals, being not above 7 to 8 Ls from the southermost of them: They are so steep on the S. side, that you can find no Ground, tho within Musket shot of the Land. On one of these Islands is a high white Hill, which seems to have a Down or Plain upon it, and is seen far off at Sea: They are all uninhabited, as is also la Roca it self, and are only useful, as they afford usually good Shelter for Ships riding under the S. and S.W. Coasts of them.

The Illands of Aves, or of Birds, are a Cluster of small unpeopled Islands, 8 or 9 in number, distant from la Roca about 10 Ls W. by N. and E. by S. from that Island, in Lat. 12 d. They lie with the Coast stretching N.W. and S.E. it is very clear Ground round about them, and you may stand boldly in as you please except on the N.E. side, where the Shore is soul, and where there are several Shoals, and Banks, Rocks under Water, and Spits of Sand, so that you must by no means come

near on that fide, no not within 3 Ls at least.

W.N.W. from the Islands des Aves lies the Island Bon Ayre, at much the same distance from the Main as the other, being in the same Lat. viz. in 12 to 12 ½ d. and dist. from des Aves about 10 Ls.

There is a low flat Foreland stretches out from it on the S.

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with the beginning of the day you may be before the Mouth of the Bay, and io run directly in.

The Reason of this Direction is, because if you chance to miss the E. end of the Island, and fall to Leeward, you will find it hard to fetch it up again, the Current always setting strong to the westward on all this Coast, and especially at this Island.

The Entrance into the Port or Bay of Curacao is narrow; but when you are in, it is sufficiently wide for any reasonable Number of Ships. When you are in the Harbour, you will find on your Starboard-side a blind Rock, which you must take great care to avoid. If you have a scanty Wind to go into the Bay, you may nevertheless run up into the Wind, and shoot in by degrees: And tho you should bring the W. Shore aboard, you need not be concern'd, for 'tis all good Ground on that side; only be ready with a Hauser in your Boat to go on Shore, and make sast a-shore on the W. side of the Fort, for in the Entrance of the Haven there is no anchoring at all.

The Haven or Harbour reaches in N E and S.W. and you may lie any where at your pleasure, after you are pass'd the Entrance: And as to the Fort, it is 3 Ls from the S.E. Point within the Mouth of the Harbour; there you may careen, and lie on Shore just where you will, 'tis all good: The Harbour is able to receive 100 Sail of Ships of any Burden.

W by S. from Curacao, and dist about 8 or 9 Ls from Cape Romano, lies the Island of Aruba, or Aruba, being the last and westermost of all the Islands upon this Coast, before you come to the Gulph of Venezuela. There is a good Road under this Island on the N.W. side, near a Point of Land, where you will see another Island much less than this, and which you must leave to the N.W. as you go into the Road to come to an anchor. In this Road you have 5 Fa. sandy Ground; but, except that Road, there is not one Spot of Ground fit to drop an Anchor in, much less to moor a Ship in.

It is a finall low Island about 5 Ls in Circumference. and has only two little Hills in the whole Place, one of which makes like a Sugar-loaf at a distance. The Island lies due N. and S. with Cape Romano, and is dist. from the E. Point of the Gulph of Venezuela about 7 to 8 Ls.

W. from this Island of Aruba, and N. from the Gulph of Venezuela, in the very Entrance of the Gulph, lie the Islands of Moages, being 8 or 9 in number, stretching in N. and S. the southermost is the largest, they are all (but one) low flat Land and full of Trees.

Beyond those Islands, on the other side of the Gulph, lies Cape Coguibacoa W.N.W. a little wellerly from the most northerly of the Islands; 'tis a low Cape, and goes off smooth with the main Land, and within it on the Land-side is a high Rock call'd Als Sierra d'Azeyta.

W. from the Mouth of this Gulph lies the Bay of Honda; yet the Course is W. by N. and W.N.W. because you make first the E. Point of Honda, which stretches 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 even clean Bottom: 'Tis a desolate Country, void of Commerce, and peopled with a most barbarous wild fort of Indians, quite naked, uncon-

Musket shot of the Land. On one of these Islands is a high white Hill, which seems to have a Down or Plain upon it, and is seen far off at Sea: They are all uninhabited, as is also la Roca it self, and are only useful, as they afford usually good Shelter for Ships riding under the S. and S.W. Coasts of them.

The Islands of Aves, or of Birds, are a Cluster of small unpeopled Islands, 8 or 9 in number, distant from la Roca about 10 Ls W. by N. and E. by S. from that Island, in Lat. 12 d. They lie with the Coast stretching N.W. and S.E. it is very clear Ground round about them, and you may stand boldly in as you please except on the N.E. side, where the Shore is soul, and where there are several Shoals, and Banks, Rocks under Water, and Spits of Sand, so that you must by no means come near on that side, no not within 3 Ls at least.

W.N.W. from the Islands des Aves lies the Island Bon Ayre, at much the same distance from the Main as the other, being in the same Lat. viz. in 12 to 12 d. and dist. from des Aves

about 10 Ls.

There is a low flat Foreland stretches out from it on the S. side, and reaches to the W.N.W. side: And where the Foreland ends you have good anchoring, only that the Shore is very steep, so that you may lie in 50 Fa. Water with a Headfast on Shore. Here is a large Bay, and in the Mouth of it another Island about 6 to 7 Ls in Circumference. Both these Islands are inhabited and full of Cattle, which brings a considerable Trassick to them; also the Trade for Red Wood brings many Ships from Cartagena hither every Year.

The Road is on the W. side of the Island, but it is a very bad Place, soul Ground and too deep Water; so steep too, that the Ships ride in 60 Fa. within a Stone's cast of the Shore. Fresh Water is also very rare to be had, the Earth in this I-

fland (as in all the rest) being brackish and falt.

W. by N. and W.N.W. from the S. Point of the Island of *Bon Ayre*, lies the Island of *Curacao*, dist. from *Bon Ayre*, 8 Ls, but easily seen in clear Weather. The Island is about 15 Ls in length, and 40 in Circumference; and in Lat. about 40 m. more northerly than *Bon Ayre*.

It is fully inhabited and fully planted; and the peopled by the Natives, is in the Possession and under the Government of the Dutch, who have here a fine Bay commanded by a strong Fort; the Bay is on the N.E. side of the Island. They have also a Road for great Ships, well enough secured, but the depth

of Water is too great.

To know the Island of Curacao at a distance, take notice of a high Hill at the E. End of the Island, which has, as you come from the eastward, another Hill not so highlying close to it; and a L. from the taid E. end of the main Island lies another low Island, stretching out towards the Shore; which low Island you must take great care of, if you make the Port in the night; and if you would go into Curacao, keep off to the castward, and if it be in the Night be sure to lie by, so that

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Beyond those Islands, on the other fide of the Gulph, lies Cape Coquibacoa W.N.W. a little westerly from the most northerly of the Islands; 'tis a low Cape, and goes off smooth with the main Land, and within it on the Land-side is a high Rock call'd Als Sierra d'Azeyta.

W. from the Mouth of this Gulph lies the Bay of *Honda*; yet the Course is W. by N. and W.N.W. because you make first the E. Point of *Honda*, which stretches 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 even clean Bottom: 'Tis a desolate Country, void of Commerce, and peopled with a most barbarous wild fort of *Indians*, quite naked, unconversible, and little better than Brutes; so that you must take care how you go on Shore.

The Coast however is full of Bays, and Inlets or Creeks, where there is good riding, but no Trade, nor any Relief, and hardly fresh Water; and the People taking all Europeans for Spaniards, will kill every one they can. The Bay of Portete is next to that of Honda, all Places fitted for Shipping and Navigation but frequented by none, the Coast being intirely void of Towns or of People, except as above.

This Bay of *Portete* is narrow at the Entrance, but wide and fair when you are in; the going in lies S.E. by E. Some tell 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 Coast, accurately survey'd, the Depths sounded, or the Dangers from Rocks or Shoals sufficiently discover'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 distance, as Ships have sail'd by upon the Coast, either to or from *Cartagena* one way, or *Caracao* the other way.

By this Observation they can tell us of what is to be seen remarkable off at Sea, as of a certain high Rock which lies to the westward of this Bay some distance from the Shore, as also some white Cliss which the Sea beats much against in stormy Weather, and the like; which high Cliss they tell us reach the whole length of this Coast almost as far as Cape Vola. The Course from Cape Coquibacoa on the W. side of the Gulph to Cape Fola is S.W. by W. and W.S.W. and from the Bay of Portete W. by S. a little westerly.

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Cape Vola or Vala, is the most remarkable Point of Land
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so that it is seen a great way in clear Weather. As you come

from Cape Coquibacoa, which is N.E. it makes like an Island, and feems to be a L from the Shore at least; and indeed it is join'd to the Main but by a narrow Slip of low Land, which is not feen at a distance.

Before you come to the Cape on that fide, there is a Bay, where there is good riding for small Ships only, because unless you run far in to 3 and 4 Fa. Water, you are not fully secured from easterly Winds; otherwise you have 12 to 17 Fa. farther out. There is also a good Road on the S. side of the Cape, where there is good Shelter in northerly and easterly Winds, which ordinarily blow Trade on this Coast. The Coast thus far trends away S.W. but from the W. Point of this Bay it turns more to the southward, towards Ranchiera the first Place in the Province of the Rio de la Hache.

Altho there are so many good Bays and Roads for the Security of Shipping, yet here is no manner of use for them, other than what is calual for Ships passing by the Coast, and those are very sew; for as to the Country, it is the most desolate Place in all this part of the World, being neither inhabited by Man or Beast; the very Surface of the Land yields neither Tree nor Grass, but is salt and dry, and so entirely barren, that it furnishes not so much as Water to drink.

Ranchiera is the first inhabited Place on this side from the Gulph, it lies in the bottom of a deep Bay, and the Course to it from Cape Vola is due S. 'tis a small sishing Town, and the Bay is large, where sishing for Pearl Oysters was once carry'd on, and brought Inhabitants to the place; but we do not find it is continued.

Tonte de Pedro, or Punta das Pedras, and Cape Vola, make this Bay of Ranchiera, the dist between the Points near 12 Ls, so that it is a very wide Bay; the Points trend out N.N.W. There are several dangerous Rocks which lie under Water, not far from the S. Point of the Bay, called de Pedra: those Rocks may be found by sounding, and by the Breach of the Sea upon them, which makes a terrible noise, and is heard a great way.

From this Point the Coast turns more to the westward, and the Course to the Rio de la Hache is S.W. The River is large and the Entrance fair and deep; but it lies open without Shelter, so that the Sea comes tumbling in with a northerly Wind. The Coast is all low and slat from Cape Vola; but contrary to what is beyond the Cape, 'tis here all green and flourishing, and accordingly Navigation comes in use, and Ships are seen in all their Ports, some loading Salt, some Red Wood, and others bringing European Goods from Porto Belo and Cartagena.

On the E. fide of the Entrance into the River La Hatha, or La Heche, lies a Bank of Sand which must be carefully avoided by those who go in with Ships of Burden. On this Bank they used to fish for Pearl also in sormer times, but 'tis now worn out.

Ships of finall Draught may ride in the Mouth of the River in 2 Fa. but if they draw more, must go away to the Bay of Ranchiera. On the E. side of the City La Hache there comes in a Rivulet of good Water, where the Ships send their Boats for tresh Water the sufficient have for took way on this con-

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When you come out of the Sea right N. and S. with this Coast, you see a white sandy Strand lying to the westward from you, there is no other such or like it. On the E. side of that fandy Shore lies a high black Point of Land called the Ancones, with feveral fmall Points between, called also An-

Between these lie the City and Port of St. Martha, from whence the whole Coast takes its Name. The Bay of St. Marthat is a very good Road, well fecured from northerly Winds: The best of the Road hes behind 2 small Islands, which break off the Sea; to that however violent the Tornades blow, the

Ships ride behind them.

Here the Spaniards frequently careen, and the Place is convenient for that purpofe, the Bay being large, and the Ground good every where. Here also you have Wood and Water in abundance, which is the more remarkable, because there is no Water, and but little Wood at most of the Ports on this Coast. All which things put together, make St. Martha an extraordmary Harbour. The River alto is very confiderable, running far into the Country, and receiving many imaller Rivers into it, some of which are navigable for small Boats, Canoes, &c. farther than the main River.

It is difficult to find the Entrance of this River when you come to it from the Sea; for there appears only a long Point stretching from the Coast, as it it were a Head-Land or Cape, making a Bay. But you must pass this Cape, and stand in to the wellward of it; and then you will fee the opening of the River on your Larboard fide within the Point. In order to pals this Point, keep a little out to leaward, or rather put out to Sea after you have made the Point: you will know it alto by a great Hill called the Sierra de Lamba, lying on the W. fide of the River.

As foon as you come about the faid Point, and open the Mouth of the River of St. Martha, you will fee an Island, which as it were blocks up the Entrance of the River; but as you come nearer, you will find 'tis only an Island, and you may fail round it on which fide you pleafe to go into the River: it is called Ifle de Verd, or Green Island. If the Wind should blow to hard at E. as it often does, that you cannot get about the Island, you may come to an Anchor under the Off Point of the fland, between that and the Point of the Main mentioned above: as, on the other hand, if it overblows from the id. or S.W. you may go under the infide of the fame Island within the Mouth of the River. In both which places there is good Riding in 5 to 7 Fa. and well fecur'd.

W. from the Rio de St. Martha lies the River and Harbour, and also the Point of Zamba, or Samba, called Punta de Zamba by the Spaniards, from the Mountain mention'd above. You will know the Entrance of this Place by a very high Hill, as it were hanging just over it, called the Maiden Crawl: There is also another Token to know it by at a diffance, viz. that above 6 Ls from the Shore off of this

and the Entrance fair and deep; but it lies open without Shelter, so that the Sea comes tumbling in with a northerly Wind. The Coast is all low and flat from Cape Vola; but contrary to what is beyond the Cape, 'tis here all green and flourishing, and accordingly Navigation comes in use, and Ships are seen in all their Ports, some loading Salt, some Red Wood, and others bringing European Goods from Porto Belo and Cartagena.

On the E. fide of the Entrance into the River La Hacha, or La Heche, lies a Bank of Sand which must be carefully avoided by those who go in with Ships of Burden. On this Bank they used to fish for Pearl also in former times, but 'tis now

worn out.

Ships of finall Draught may ride in the Mouth of the River in 2 Fa. but if they draw more, must go away to the Bay of Ranchiera. On the E. side of the City La Hache there comes in a Rivulet of good Water, where the Ships send their Boats for fresh Water, the first they have for some way on this Coast. The Mouth of this River is barr'd to 12 Foot; but when you are in, 'tis deep enough for any Vessel of Burden.

From the River La Hache the Coast reaches out W. and then S.W. to the River Buchia or Bugia. Between them lie the great Mountains, or rather a Ridge of Mountains, called the Sierra Navadas. The River is very rapid, occasioned by the Freshes from those Hills; the Force of the Current is such, as spoils the Navigation of the River, so that no Ships of Bur-

den can go up there any length.

W. from the River Bugia lies the River Don Diego, which is the greatest on this Coast: There are several Rivers come in between them, as particularly the River Piras, then the Pallomious. From the River Bugia the Course is W. by S. and the Coast is all foul and full of dangerous Rocks; nor is there any Harbour or Road of note for Ships to take Shelter in.

N. B. The Dillances of Places are feldom fet down in any of the Accounts given of these Coasts, at least not with that accuracy as to be depended upon; no exact Survey having been taken of the Land any more than of the Sea,

and the Latitude being much the lame.

Nor are the Dangers of this Coast less from the tempestuous Climate, than from the rocky Shore, the Seas being exceeding boosterous, and the Tornadoes so frequent, that 'tis very rare to fail along this Coast without meeting with them, which having few or no Ports to run into, renders it very dangerous.

The Spaniards call all this Country O Pano di Cordona, and the Mountains which lie in a Ridge W. from Sierra Navadas, Sierra de Sembro: concerning which Mountains the Spanish Salors tell us, that when they are clear, and to be seen without any Clouds hanging on their tops, you may depend upon a Storm being at hand; and they say it never fails.

To the westward of the River Diego lies a small River called Aneon de Gaccio; and beyond that, farther W. is the Bay

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W. from the Rio de St. Martha lies the River and Harbour, and also the Point of Zamba, or Samba, called Punta de Zamba by the Spaniards, from the Mountain mention'd above. You will know the Entrance of this Place by a very high Hill, as it were hanging just over it, called the Mardon Crawl: There is also another Token to know it by at a distance. viz. that above 6 Ls from the Shore off of this Bay the Sea looks white and thick, as if some muddy River emptied it self with a surious Current: 'Tis also known by the Soundings at Sea, for at the dist. of 4 Ls you have 30 to 40 Fa. soft ouzy Ground.

W. of this Point of Zamba lies a Bay called by the fame Name; and just before it are four Islands called the Arenas, which render the Bay an excellent Shelter for Ships in cases of Distress, let it come from what quarter it will; for you may run in either round or between them, and anchor almost where

you will.

These Islands also break off the Force of the Sea, which as I observ'd goes exceeding high on all this Coast, especially with a N. and N.E. Wind, which usually blows longest here and with the most Violence. Indeed you have seldom any other except in the Tornadoes, when sometimes the Wind boxes the Compass in less than two hours.

In this Bay you have excellent Conveniencies for careening and repairing your Ships and Boats, good fresh Water, and Wood in abundance. As for the Sea, bring the Island Zamba to bear S.S.E. from you at the dist. of 2 Ls from the Shore, you have then good gradual Soundings from 15 to 25 Fa.

From the Arenas Islands the Coast trends away S.W. to Punta Canoa, or Point Canoo, called so, because it makes at Sea like two Canoes joined together. The Course to this Point is W.S.W. by reason of many Rocks and Dangers which he in the way, some under Water at the dist. of 2 Ls from the Shore; which makes it very necessary, unless you are well acquainted, to keep a large Offing, especially when you go a about the Point from the castward, or if you come from Cartagena.

To the W. of this Bay, still lying along the Coast which holds on W. hes the Bay de Gutta, another good Retreat for Ships, but render'd the less useful by the nearness of the other, which is so very large and good, that nothing better can be desir'd.

Sailing Directions for the North Coast

From this Punta Canoa lie off the noted Shoals called De Nigerillo. This Point lies in Lat. 11 d. 25 m. and to the W. of Point Canoa the Shore falls off into a great open Bay, which has no Place of importance in it; but being a meer Strand, firetches out W. to a Point called the Little Canoa, from whence the Land trends inward again, till it makes the E. Point of Cartagena; there the whole Coast may be said to end.

Cartagena lies in a deep Bay; nay, the Port of Cartagena takes up the Bay, for the City is in an Island, only in one part of it: The Entrance, or rather the only navigable Entrance into the Bay, is at the W. Part; for the Bay lying almost due E. and W. parallel with the Sea, is separated from it not by the Main, but by three Islands which lie in the Front of it; one fquare, called the Kares, which is the westermost of the three, on which is the Fortalifa, and makes the W. Point of the Port, or Entrance into the Road; one long, which stretches E. by N. from the E. Point of the Entrance, which is called Illa Nova; and one triangular, which is the castermost, and on which the City of Cartagena stands. It is separated on the westermost Point from the Isla Nova by a small Channel of the Sea, but not navigable; and is joined to the Main at the two other Angles by two Bridges: The Channels over which they lie are not navigable, so that there is no entring the Port but at the Opening between the Isla Nova and the Isle of Kares.

On the W. end of the Isla Nova, making the E. side of the Port, are two strong Forts which lie N.N.W. and S.S.E. of one another: the first near the Point opposite to the Fortalisa on the Isle of Kares, is called Forto Granado; and the other at

the other Point, Forto des Indies.

There are also two other Forts on the S. Side built upon the Main; and as they lie upon the best of the Channel, so they are Guides to your entring, as well as Guards to the Entrance: one is called *Eorto de Mansanilha*, and the other *Forto Zelito*: The last is to the eastward of the sirst, and opposite to the W. Point or Angle of the City.

Before you come to enter the Port, there is a good Road even in the open Sea under the eastermost Point, where giving the Land a small Birth, you may ride in 5 to 6 Fa. with gradual Soundings off to 12 Fa. Ships ride here for a Wind, as they do on the Coast of England in the Downs, to go in or

out.

The Entrance into the Harbour is S.W. from this Road, lying between the westermost and the middlemost Island; 'tis a sair open Harbour, and bold, having no Dangers but what are seen, and in the Fair Way, which is Mid-Channel, inclining

to the W. side, from 11 to 16 Fa.

Till you are a-breast with the second Fort, your Course in is S or S by W. After you are past the second Fort, there lies a Shoal called the Aixo, or the Aixos, that is, the Flats or Shallows, which stretches out near S.S.E. towards the Main: keep along by that Shoal to the Point of it, and then steer up the Channel due E. or E. by N. keeping in 9 to 10 Fa. by your Lead, which you must have constantly going; and stand over to the Point, passing close under the Guns and Platform of

of the Port; you do not l

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From the S.W. by W. to the S.W. a Shoal of and go out:

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of the Port; then you are in no danger of the Salmadina, if you do not keep too far off.

If you come from the westward, you may run clear of the Salmadina, by keeping 2 Ls off from the Island, till you make the Entrance into the Port of Cartagena sair open with you, due S. or at most a little westerly. Or if you please you may run in at the Channel of the Bocrachia W. of the Isle of Kares the Channel is safe, and there is Water enough, tho it is not

much frequented.

The Country is not inviting for any Strangers, were it not for this excellent Port, which is, without exception, the belt in all the N. Coast of South America; but otherwise the constant Rains, violent Heats, and frequent Tornadoes and Tempests make both Sea and Land very uneasy to our European Seamen, and they die in great Numbers if they are kept long upon this Coast. From the Port or Entrance into Cartagena the Coast lies S.W. There are several small Bays, and some Rivers, as the River Maturea, but no places of Business for Shipping, or any Town or Harbour upon the Coast worth notice.

There is indeed a large Bay and Harbour at the Islands of St. Barnardo, which are five in number, lying in the Entrance of a large Bay, and which make the Bay an excellent Harbour for Ships; for the Entrance going in amongst the Islands, it is of course shelter'd from all Winds that can blow; for example,

The Channel goes in N.W. between the outermost Island called St. George's; then stretching behind the Island, it turns N.E. The innermost Island is called St. Gisb. rtus; and between them is a third called the Goeree; and on the off side lies a Shelf of Sand, which breaks off the Sea, and iccures the

Channel, which is deep and good.

After you have past a rocky Island called the Westermost Cay, you must haul in E. by S. and E. for the Road of Grand Brue. There are also four or five small Cays above Water, which lie to the eastward in the Fair Way; and as you come nearer the Road, you have at last a whole Rist of small Cays, that is Rocks. As you go into the Road called the Grand Brue, observe, that in going about the Point you give it a Birth, keeping off in 7 to 8 ha, not nearer by any means: in doing this bring a Plantation, which you will see 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 best of the Road, and may anchor in 7 Fa. N. B. The W. Point of the outer Cay is higher, and is to be seen at Sea above all the Cays which he without it.

W. from these Islands lies the River Chenu, having a wide Entrance; but as there is no Survey taken of it, nor any use made of its Channel as we can learn, so we can give no Di-

rection about it.

From the opening of this River the Coast trends S.W. and S.W. by W. and from the Islands of St. Barnardo it lies nearest to the S.W. From the W. Point of this River there runs a Shoal of Sand, which must be avoided, both as you go in and go out: and just within the Point hes a finall Island called Isla Forta; there is no good Anchoring about it, the Ground being all muddy and roo loft.

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Off of the Itle of Kares, a little out to Sea, and lying S.W. from Cartagena, lies a fink Rock called the Salmadinas, which is dangerous; an English Man of War called the Hunter struck upon it and was in danger of being lost: it may be known by the Breach of the Sea upon one part of it for about thirty Yards; but the Hunter struck upon the Tail beyond the breaking of the Sea, the Pilot supposing he had been clear of it.

As you come from the eastward, you have nothing to fear, nor any Rule to observe, but to come no nearer the Isla Nova than 6 Fa. and sail boldly by it into the Road mention'd above, under the Power de Granudo, and then turn in for the Channel

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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 best of the Road, and may anchor in 7 Fa. N. B. The W. Point of the outer Cay is higher, and is to be seen at Sea above all the Cays which lie without it.

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W. from these Islands lies the River Chenu, having a wide Entrance; but as there is no Survey taken of ir, nor any use made of its Channel as we can learn, to we can give no Direction about it.

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S.W. from this Island lies the Island Tortugas: There are many Islands on the Coast of America of this Name, but this in particular the Spaniards call so, because, they say, 'tis shap'd like a Tortoise, which the Spaniards call Tortuga. It lies about a L from the Main; and unless the Weather is very clear,

it makes at a distance as if it joyn'd to the Main.

The Land over against it is called *Punta de Delrio*; and the Mountains behind it, for the Country is full of extraordinary high Hills, are called *Sierra de Vento*: which Land lies extended W. by N. and W.N.W. till they join with the E. Point of the Gulph of *Darien*. And so you have the N. Coast of *South America* joyned to the southermost Land of *North America*, being that called the *Islamus* of *Darien*, where we left off.

N. B. As the Land has generally lain along E. and W. or near those Points, from the Bocca del Drago to this E. Point of the Gulph of Darien; so from hence it turns to the North, and lies due N. and S. from the other Point of the Gulph of Darien to the Point a little short of the City of Nombre de Dios, as has been fully described.

Sailing

Sailing Directions for the East Coast of South River de Amazones, to the River Oroonoke Pilots or at prefent navigated by Europeans.



S this Coast is but very imperfectly surveyed, we must fatisfy our selves with picking up such Fragments as we can find, and place them in the belt order we can. The best that can be faid of this Part is, that as it is but superficially surveyed, so it is a

Coast but little used by Europeans.

The Dutch indeed have 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 have no Account of any other Europeans, who have planted, or at least continued their Plantations, between those two great Rivers.

The first Account we find of the Coast relates to the making the Land. When any Ship bound thither from England defigns to make the Head-Land of the Rio d'Amazones as his first

Port, the Directions are as follow.

' If you are bound for the Coast of Guiana, and would take ' your Departure from the Lizard, thape your Courle first in the lame Latitude as you do for other Parts of the West Indies. viz. for the Canary Islands, till you come into Lat.

43 d. keeping about 60 to 70 Ls to the westward of Cape * Finisterre, which lies in Lat. 43 d. or thereabout: Then there away S. by W. That Course will carry you without,

· that is, to the Wellward of the Island of Madera, which lies 6 in Lat. 31 d. 20 m. Then go away S.W. by S a little welt-

erly, and that Courfe will lead you clear of all the Itlands, as well the Canaries as the Cape de Verd Islands, and carry

· you quite away to the Coast of South America,

 \mathcal{N} . \mathcal{B} . About the Lat. of those Islands you will begin to fall in with the Trade-Winds, viz. the N.E. which blow conthantly from the fame Point, or with very little Variation; and, except in the Travadoes and Hurricanes, for eight or nine Months at leaft. But you may observe, that they differ at fome time of the year from what they are at other times; and fometimes they go farther one way, fometimes another; and the farther you keep to the northward, the more variable you will find them to be.

It then you find the Trade-Winds variable, you must shape your Courle a little more westerly, till you find your felf under the Line, or near it; but as foon as you are pais'd the Equator, fleer away due W. and that Courfe will bring you fair with the Mouth of the Rio d' Amazones, which lies just under the Line.

The Entrance into that River, one of the greatest in the World, opens to you N. by E. and from you S. by W. or threabouts, tho the Head-Land of the W. Shore of its Channel lies due N. and S. and is therefore called the Cape de Noord, or the North Cape. The only Danger of that Course then is of falling too much to the westward of the Mouth of the River, that is, to Leeward of the Cape; in which cafe you may have great Difficulty in beating it up against both Wind and

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the Equator, us fair with the ender the Line, greatest in the S. by W. or of its Chandape de Noord, Course then is the of the Ricase you may both Wind and

them. These two are six Ls assunder; and 7 Ls from the last lies the little Cappurough. Note, that all these Rivers come into the main Channel from the W. But as from the Mouth of the River Arrowary the Shore goes away N.W. or W.N.W. trending on a Line towards the Mouth of the Orosnoko; so all the Rivers afterwards come into the Sea from the S.W. or near that Point.

As I faid above, the Shore trends to the N.W. and most of the Rivers take their Courle from the S. or S.W. The first of these is the River Arriary, which is large at the Opening, but grows narrower farther in; where there is another River extending it self fouthward, but only navigable for smaller Vessels. On the E. side of the River Arrivary, or Arrivary, lies a Bank which you should be careful to shim. The River Arrivary is wide and large, reaching far in within the Land.

On the W. fide of this River lies an Outlet or Arm, as the Arrowary is to the Amazones, and is called Wingree, or little Win, which branches it felf every way, like as the other Rivers do, and is navigable every way. The going into this River is much like that of Arrowary, that is, that after failing 4 or 5 Ls up the Arricary, there lie fix small Islands, directly opposite to which lies the River Wiapoco.

In going into this River, keep the Hill called Carrier right a head, and form up till you come to 3 or 4 Fa. Water, and then drop your Anchor, foir Clay Ground, where you may ride with lafety. There are very few of the Lands hereabout inhabited, fo there can be no great occasion of Shipping.

From the opening of this River the Coast trends NW. to the River Capperwacco, or Aperwacque; it is an indifferent large River, with an Island lying thwart the Entrance: and all round the Island lies a Bank of Sand. After you are run in 5 to 6 Ls, it is divided into 2 great Branches, one to the southward, and one to the westward.

Off of this River lies a Cluster of very high Rocks, you may see them 4 or 5 Ls off every way; they are called the Constables. Your Course either for the River's Mouth, or along the Coast, is between these Rocks and the Main; and you may anchor also within them in 4 to 6 Fa open with the River; so that you may go directly up the Channel. If you are bound in, keep the W. side of the Channel, and you cannot do amiss.

A little to the westward of Capperenacco lies a small narrow River called Canvo, on the castermost side whereof lies a Bank of Sand. To sail in, keep along the W. Shore, there you have 2 Fa. in the Entrance; but after you are in, there is 5 to 6 Fa. far up. All this Coast, from the North Cape to the River Wia, you have soft middy ouzy Ground, otherwise tis a clear Coast as to Rocks, and the Soundings good. On the W. Shore of this River Canvo you will see a Town called Cottownia;

differ at fome time of the year from what they are at other times; and fometimes they go farther one way, fometimes another; and the farther you keep to the northward, the

more variable you will find them to be.

If then you find the Trade-Winds variable, you must shape your Course a little more westerly, till you find your self under the Line, or near it; but as soon as you are passed the Equator, steer away due W. and that Course will bring you sair with the Mouth of the Rio d' Amazones, which lies just under the Line.

The Entrance into that River, one of the greatest in the World, opens to you N. by E. and from you S. by W. or threabouts, tho the Head-Land of the W. Shore of its Channel hes due N. and S. and is therefore called the Cape de Noord, or the North Cape. The only Danger of that Course then is of falling too much to the westward of the Mouth of the River, that is, to Leeward of the Cape; in which case you may have great Difficulty in beating it up against both Wind and

Current, and fometimes it is not to be done.

There is one way to recover this mistake, if you are not shot too far to the Leewin d, and that is to put into, and run thro' the Channels of Arrowaly. This is called another River, and is distinct from the Riv d'Amazones: the Mouth of it has about 12 Ls to the westward of the Cape de Noord. Some will have it be a Branch of that great River, and it may perhaps be so, tho you go thro' many other Channels before it brings you out, and at last it salls in on the E. side of the Point, but without the Channel of the main River: so that it is rather an Arm of the Sea, making the great Island Carport, than a Branch of the River; but be it which you will, if you can by the help of the N.E. Winds stem the Current, and make your way thro' this Channel, it certainly brings you out within the opening of the great River, and at least 16 Ls to the southward of the North Point.

This Channel beginning at the W. Point of the Island Carferi, reaches in first S.W. then goes on S. then S.S.E. as the several Windings and Reaches lead: then it goes away S. and at last opens into the grand River, or rather, into the Mouth of it N.E. The castermost Point, which is the S.W. Point of the Island Carpori, is called Cape Anowary, from the Name of the River.

In the Paffage of this Channel, or River, you have from a to 6 Fa. Water, a muddy ouzy bottom; and you must be sure to come to an Anchor every Tide, for the Ebb which sets out to the northward runs with such a rapid Fury, that there is no stemming it, no not with a hard Gale of Wind, unless it should blow a Storm; and then it would not be without its Dangers on other Accounts.

In this Channel lie feveral other Rivers, which are navigable also, as the River Warripoco about 2 Ls to the westward, and the Rivers Mariporough and Carporoughs, with severalothers, but without Towns or Trade; so it is needless to describe

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Off of this River lies a Cluster of very high Rocks, you may see them 4 or 5 Ls off every way; they are called the Constables. Your Course either for the River's Mouth, or along the Coast, is between these Rocks and the Main; and you may anchor also within them in 4 to 6 Fa open with the River; to that you may go directly up the Channel. If you are bound in, keep the W. side of the Channel, and you cannot do amiss.

A little to the westward of Cappertu uco lies a small narrow River called Canvo, on the eastermost side whereof hes a Bank of Sand. To fail in, keep along the W. Shore, there you have 2 Fa. in the Entrance; but after you are in, there is 5 to 6 Fa. far up. All this Coast, from the North Cipe to the River Wia, you have fost muddy ouzy Ground, otherwise its a clear Coast as to Rocks, and the Soundings good. On the W. Shore of this River Canvo you will see a Town called Cottowart; there are some Europeans settled there, but we find no Ships use the Port, or very rarely.

S.W. by W. from the Constables lies the Mouth of the great River Wia, which goes in between the Island Cayana and the Main; 'tis a River of a very long Course: the length inwards is not discover'd, but may be concluded to be great by the Strength of the Current, and the greatness of the Stream of Water which comes down.

The Island Cajan, or Cajuna, is named from a River of the same Name, which comes into the Sea on the other side of it, and makes a very good Harbour, the best in many respects on all this Coast; 'tis large enough to receive 100 Sail of good Ships, is well fecur'd from all Winds, and has 4 to 5 Fa. clean Ground, any where all over the Road.

On the Island Cajana there is a very large Fort, or rather a tortify'd Town, which has also a Fortress within it: both are strong by Situation, and the Works about them very regular, raised by the Dutch when they had Possession of the North part of Brasil.

The Island is inhabited by a fort of People called Sh bayes of the Brafilian kind: the Foit is in their Language called Sobarbiob. Some Ships victual here with the Flesh of wild Swine, which cures very well, and is pickled and barrell'd up as Pork is in Europe.

In the Entrance into the Road or Harbour of Civana, you must be careful to keep without four small Islands which he just off of the Town: The best of the Road is to the S.W. of them.

There are also several small Islands in the Ossing, due N. from the Main Island, at the dist of 3 Ls from the Shore, etc. the Boot, which is the westermost; and E. from that dist. 1. L is the Forlorn or Lost Island, being a great Rock only but they say it was a large Island, most of which is tunk into the Sea and lost.

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Sailing Directions for the Ea

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Farther E. about a mile lies a long narrow Island called the Vaader, or the Father; and 2 Ls E. by S. from the Father Island lies another long Island, and 2 little ones, called de Moder and de Doghtors, that is, the Mother and the Daughters: they are all little more N.W. than those mentioned before, called the Constables, which lie in the same Line S.E. from the Mother and Daughters about 3 Ls. There are two of these latter, one called the Constable, and the other the Constable's Mate.

If you would run in between these Islands and the Constables, you must not stand right thro' from the Sea with the Opening, but keep a more northerly Course; at least two or three Points, because of the strong Current which sets in from the westward between those Islands and the Main, and which will without such Caution drive you ashore upon one or other of them, or oblige you, in order to avoid them, to run too far towards the Main, and endanger your going ashore upon the Island of Cajana: and even with all this Caution you will have enough to do to make good your Course, which ought to be in the Midway between the Islands, in 4, 5, or 6 Fa. Water. N. B. An E. or W. Moon makes still Sea at these Islands.

From Cujana the Coast lies E.N.2. to the River Caurora; there are three Islands lie just in the Mouth of the River: if you are bound in, you must keep off from the said Islands, and go away to the westward of them, and then stand round in, with the Opening: the Channel of the River is good, and you may

anchor in 7 to 8 Fa. flimy Clay Ground.

From the River Caurora the Land thrusts out to the northward to the River Uracho, the Course is W.N.W. the Entrance is on the W. side within a high Point of Land, which makes far into the Sea on the Shore of the River. The dist. from Caurora is 18 Ls; there lies a Spit of Sand from the eastward Point which you must take care to avoid. Having past that Shoal by your Lead, the Entrance into the River is safe, there is 2 + Fa. in the Fair Way. There is also another River between them, called Rio Carazowiny; 'tis large and navigable, but of no great use, sew Ships coming thither, except some Dutch Vessels to load a kind of Wood for Dyersuse, of a kind

between the Brasil and the Logwood.

W. from the River Vracho lies the Bay of Arwacas. In the bottom of the Bay is a Village also called Arwacas: off of the Town there is a good Road for great Ships, and thelter'd from S. and eafterly Winds, but a little open to a northerly Gult, which brings in a high Sea. To the weltward of the Bay lies the River Amona, a large deep River and navigable, not for Ships only, but for a great Fleet if need were: 'Tis allo navigable far up into the Country, but no Trade requiring it, the Channel is not founded; the only Deficiency is, that the River lying almost strait in, without Reaches and Windings, as great Rivers usually have, the Tide runs with such terrible Force, especially the Ebb, that unless you can get to ride in fome Bight, or in the Eddy of some Point, no Anchor can hold you. But there is another thing which renders the Navigation of this River less valuable, and that is, that there are no Towns or People to be found on its Banks, or any Produce of the Country which should bring Ships to the Place.

From the Bay of Amona the Course lies N.W. by W. to the River Marrowini, or Morasawiny, another great and deep

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Ships have some Trade, but chiesly for Furs and Dyers Woods.

From hence the Coast trends away W.N.W. a fair clean Strand to the Mouth of the River Surinam, the distance from Active rowing about 25 Ls.

This is a noted Place for European Commerce, the Dutch having a large Colony upon the River, and confequently a great deal of Shipping, as well to the Port which is in the Mouth of the River, as far up into the Country, and as some

fay above 40 Ls.

There runs off a great Spit of Sand from the E. Point of the Entrance, which goes far into the Sea: Keep well off at Sea before you stand in for this Harbour, till you see fairly into the Mouth of the River from the W. Point; then stand over to the Point, and run in, you will have not above 2 Fa. there at low Water; but 'tis deeper when you are gotten in. The River is about 2 Ls wide in the Entrance, and is divided into several sine Streams, after you are in, all navigable, and running far into the Country several ways: So that here is great Convenience for Shipping, and several good Harbours; and the Trade being considerable on this Coast, most of the Ships come hither as to the chief loading Port. The best anchoring is just under the Fort call'd the Zelandia Fort.

From Surinam the next Port W. by N. is Cupanuma, dist. from Bramao Point 12 Ls, and from the Mouth of the River Surinam 10 Ls. If you are bound from the eastward along this Coast, you must keep a large Offing between the River Commewing, and Surinam or Cupanama; because in the Midway lies a great Bank of Sand off from the Shore, reaching above

4 Ls into the Sea, and being near as many in breadth.

From Cupanama the Coast lies W. 10 Ls to a small River, nameles, but call dby the Dutch the Devil's Creek: There is a fair Harbour and good anchoring in soft oozy Ground: Keep the Fair Way Mid-Channel, in which you have 4 to 6 Fa. Water.

Four Ls from Van Duyvels Creek, to the Dutch call it, lies the River Barbiezos, the Coast is due W. 'Tis all a fair Coast, as before: In the Mouth of that River lies an Island, but the Entrance is very fair on the E. side of it; only you must keep off from the E. Point, till the Mouth of the River opens due S. from you; then you may run boldly in, having

14 to 16 Foot Water in the Entrance at low Tide.

From Barbiezos the Coast bears out to the northward, so that the Course is N.E. by E. to the River Demiary, or Demerary: 'Tis a good Coast, and good anchoring Ground all the way, the Shore plain and clear, with good Soundings from 7 Fa. to the very wash of the Shore. Your Entrance into the Demiary lies S.W. by W. so that you must go round a long Point of Land, which makes the E. Point of the Gulph of Esqueba. From the River Barbice, so some Charts name it, to that Point, the distance is 22 Ls. and thence to the Entrance into the Demerary 3 Ls: The Course to the Point, as above, is N.E. by E. and the Course in the Fair Way, taken at an Ossing of 5 Ls W. of the Point, is S.W. by W.

The Channel in, is in the Midway; keep your Lead going, and when you find 14 Foot Water to 2 † 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 2 Foot gadually; and when

between the Brafil and the Logwood.

W. from the River Vracho lies the Bay of Arwacas. In the bottom of the Bay is a Village also called Arwaeas: off of the Town there is a good Road for great Ships, and thelter'd from S. and easterly Winds, but a little open to a northerly Gust, which brings in a high Sea. To the westward of the Bay lies the River Amona, a large deep River and navigable, not for Ships only, but for a great Fleet if need were: 'Tis also navigable far up into the Country, but no Trade requiring it, the Channel is not founded; the only Deficiency is, that the River lying almost strait in, without Reaches and Windings, as great Rivers usually have, the Tide runs with such terrible Force, especially the Ebb, that unless you can get to ride in fome Bight, or in the Eddy of some Point, no Anchor can hold you. But there is another thing which renders the Navigation of this River less valuable, and that is, that there are no Towns or People to be found on its Banks, or any Produce of the Country which should bring Ships to the Place.

From the Bay of Amona the Course lies N.W. by W. to the River Marrowini, or Morasawiny, another great and deep River, the distance 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. side of the River there lie a great many little Islands, supposed at first 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 also divers Rivers, which fall into the main River among those Islands, most of which are able to carry good Ships, were there any Use for them.

The main 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 Islands directly in the Mouth of the River, with a Bank of Sand running out to seaward. Keep your Lead and Line in Hand; and going on either fide, come no nearer than 4 to 3 Fa. You may anchor on both sides in

good hard Clay Ground.

From this River to the River of Surinam is a fine clean Strand, and a clear Coast. Between them lies the River Commewing; which tho it be a large River, and of a long Course, yet when it comes as it were to the Sea from the South, it turns its Course W. and runs into the Sea at the same Opening as the River Surinam, making an inland Channel somewhat

like the Frischaaft on the Coast of Prussia, running parallel

with the Sea for near 20 L.s.

But before you come to that River, lies a little River call'd Surimina, or Sorominy; which tho a much smaller River, is a very convenient navigable Channel, having 3 Fa. in the Entrance, and 4 to 6 Fa. within: The Entrance will make you cautious, for you will think you are running right a-shore, a great round Point seeming to divide the River into two Channels; but passing by to the westward of that Bluff Point, you will see the River sair before you. Here the Dutch

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The Channel in, is in the Midway; keep your Lead going, and when you find 14 Foot Water to 2 + 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 deepest of the Channel.

The Dutch have several little Colonies 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 send 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 consider of before hand.

Four Ls from the Mouth of the River Demerary lies 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 lie three great Islands, the Laguaneca or Lagewaan, the Margaretta, and the Parrots Island; they lie a-breast of one another, the first to the eastward, the last to the westward, and the other in the middle; and behind the Parrots Island lies the Island call'd the Troel: These sour Islands as it were block up the Mouth of the River; but the Channels between are very clean and good, tho not very deep. In the E. Channel is the deepest Water; the two middle Channels are very shoal, one has at low Ebb but 6 Foot, at other times 13 to 14 Foot.

After you are past the Islands, and go up the Channel, you have Water enough: Then you meet with feven other Islands, call'd the Seven Brothers, and by some only the Seven Islands. Farther up you have another Island call'd the Whale-Fish Island, and three more call'd the Three Brothers: After which

the River spreads wide, and is navigable a great way.

The two westermost Islands at the Entrance have large Shoals of Sand running out from them to seaward; so that you must keep to the eastward, to sail in between the Island Lagewaan and the Main, where you will have 3 fa. to 3 1, with good holding-ground to anchor in if need be

On the W. Shore far within this River, the Du'ch have a Fort call'd Sec-over-all, because built on very high Ground; but you must not venture up thither with a Ship without a

Pilot, the Channels being very difficult.

If you come from the eastward, to make this Port you must run above the westermost Shelf, leaving it on your Larboardfide, and run in between it and two other small Shoals, which lie more to the westward still: But take good heed not to come too near to a Shelf which lies off of Lagewaan Island, and run up between that Island and the Main, leaving the Island and also the Shoal on your Starboard-fide.

When you are a-breast of the Island, you will deepen the Water to 4. 5 and 5 ± Fa. Also observe, that just asbreast of the Island comes out a Spit from the Main, lying out a good way; but you have room enough to leave it to the Larboard-fide half a L, and Water enough; to keep in 5 to 6 la.

and you will go clear.

W. from the Gulph of If jueba lies the River Poumaron, or Pournern: but your Courle is due N. and at most N. by W. till you make a long high Point call'd by the Dutch Cape Nuffau. In failing this Courfe you must stand 4 to 5 Ls off to the westward of the Shore, all the way from the W. Channel of I Gueba, or rather from the lowermost Point of the Island of Langewaan, because the Shore is flat off a long way, and full of Shoals also far out from the Main; which Shoals begin from the Adder's Bank off of the Rio Arubo, and reach more or less all the way to Cape Naffan.

That first Shoal call'd the Adders Bank, reaches as far as a Point with a high Tree upon it, call'd Cape de Hoe; the high Tree flands on the N.W. Point of a fmall River, where you may fend in a Boat for Refreshments and Water, but must not g) in with a Slip. Off of the Cape de Hoe a Shoal lies a great

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Sailing Directions for the Coast of Brasil, from the Amazones, to Cape Santa Maria, being the N into the Rio de la Plata, inclusive.



Street Portuguese claim the Sovereignty of all this Coast, from the S. Point of the Opening into the River of Amazones, and annex it all to their Colomy of Brafil; to whether they possels it all or no, as by our Account appears to be doubtful, 'tis not

material to the Sailors: 'Tis sufficient that they call it all the Brail Coaft, and we may describe it as fuch, without entring

into the Question whether of right it is to or no.

From Cibo Noord, or the North Cape on the Island of Car-1 19, which makes the northermost Point of the E. Shore of the Rio d'Amazones, to Punta de Pedras, which is the Headland or first Point on the opposite Shore on the Main of Brufel, it is by just Measure either of the Land or Sea 75 Ls; and to wide we may reckon the Mouth of that valt River to be; measuring clear of all the Islands which lie within the

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oint of the long way, hich Shoals and reach

as far as a; the high where you at must not hes a great

way into the Sea. On the outward Edge of those Shoals you have no more than 6 to 7 Foot Water. Beyond this still N. by W. lies another Shelf call'd de Broad Hock, which reaches out a long way to Sea, and keeps on to Cape Nassau.

Cape Nassau, (call'd by the Spanish Pilots Cape Drosge) makes the E. Point of the River Poumaron, As you fail N. and by W. and due N. to come out of the Gulph of Esqueba, and that your Course for this River lies in N.E. for about 5 or 6 Ls, so you will not see the River it self till you keep that Course, and bring Cape Drosge to bear S.S.E. from you; and then

the Opening of the River will lie S. by W. from you.

The Entrance is wide, but the Water is thoal, to that great Ships do not go in here. The Dutch have two or three large Settlements in this River, and a good number of Ships employ'd in it. When you are over the Bar, you have 4 or 5 has but not above 7 to 8 Foot upon the Bar at high Water. If you are bound up, as foon as you get in, run S.E. about Muskito Point, and then go S. in, and come to an anchor before the first Village. Also at the second Fort is a good Road.

There are feveral other small Rivers W. and N.W. of this Port, such as the Alernzo, another call'd Waymay dist. 3 Ls. the Amacum 4 Ls, and the Alecomoco 4 Ls farther: This lass some call the Luttle Oromoko, but it is not so taken in the Charts.

N.W. from this last lies the great River Oroonoko, with the Island Trinidade at the Mouth of it, of all which we have spoken in their proper Places.

There are several good Roads about the Island of Trimdade: but as the Spaniards neglect the Place, and there are very sew Inhabitants upon it, we think Directions for failing about it very useless.

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Being past this Rist, stand in S by E. sair for Arripoka, which is the first Island you meet with in the Mouth of the Rist de Amazones, and makes the E Point of the Channel mention'd above; the N. Point of a large River, which comes in from the Main W. by S. from it, making the other or W. Point.

Before you come to the Island Arripoki, you will see three hard dry Banks of Sand lying triangular, at about a L distance from the Island, and about the same distance from one another; the northermost is the biggest: Leave them all on your Larboard side, and stand in S.W. for the said Point of the River on the other Shore; the Sands are steep too, and you will have 5 to 8 Fa. and a very sair Channel all the way. When you have made the said nameless Point, you Course is due S. to the River; and stom thence you have the like clear Channel

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As the Islands in this great Opening are not to be number'd, fo neither are the Mouths or Paffages between them into the River: for fo many Itlands, to many teveral Channels may be

faid to belong to the Grand River.

The chief Entrance which Navigation takes any notice of, is on the W. fide of the River; due S. from the Island Carpo-21, and S. alto from the Mouth of the River Arrowary mention'd before. To go into this Paffage, supposing you first make Cape Nourd, fland in for the Cape, till you come into 6 Fa. Water, you will find the Shoalings gradual and just: But come no nearer than 5 Fa. at which time you will be 2 Ls at least from the Shore; the rest you must allow for a Flat, which lies off from the Cape, and continues to lie off Shore all the E. fide of the Island, till you come to the Mouth of the River Arrowars. About 5 Is thort of that River the Land thoots out into the Sea cashward, making a large round Cape, but we know no Name given it.

Off of that Point you will find, keeping the ufual diffance, - to x and 1 Fa. Water: From thence steer E.S.E. till you get about 1 - I.s off, to avoid a long Riff of Sand, which thoots off due N. from the other Point of the River Arrowary; which Sandends in a fliarp Point, and at the End of the Point lies a fmall Island of Sand, dry at low Water: All which you mult avoid, and keep a good Offing, as above, least you are hors'd upon that Island and Riff by the Indrast of the Ebb, which runs very strong into and thro' the Arrowary, as has

been oblety'd mits place.

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final diffance, S.E. till you Sand, which t Arrowary; of the Point II which you least you are of the Ebb, wary, as has

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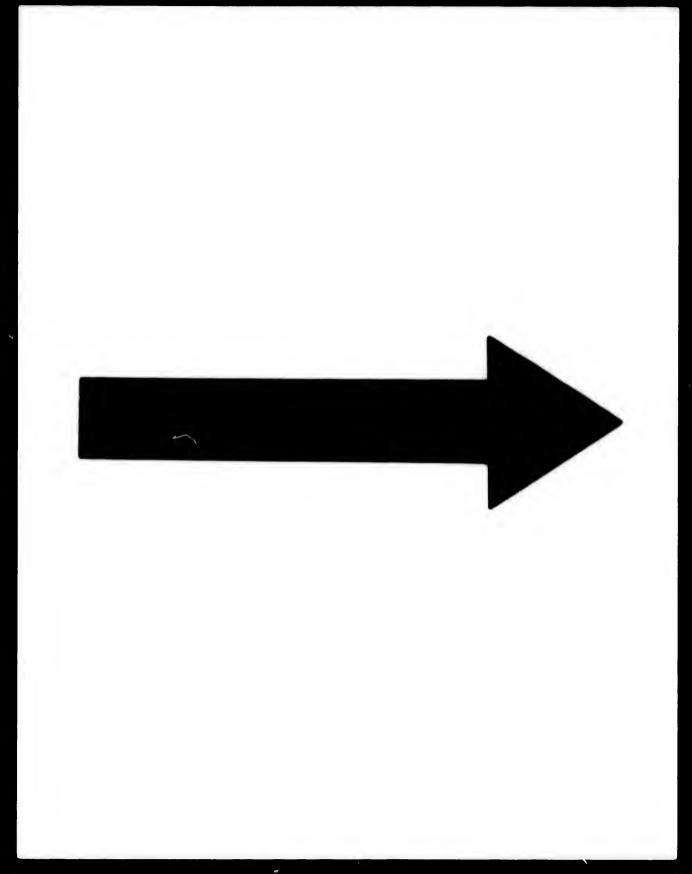
N. B. The Entrance into this Channel is directly under the

Equator.

On the E. fide of all these Islands, at about half a Degree S. and at the distance as above, begins the Coast of Brosst. The Islands of Arripoka is on the other. Opposite to this Island, a great River call'd Guama empties it self into the Rio d'Amazones; and on the Point of Land which makes the N. Head of that River the Portugues have a Fort named Cadade, or Crustade de Belem, that is, the City of Belem, where they keep a Garrison, and where there is a very good Road for Shipping; but the Current of the great River is so strong, that Ships cannot work it up without great difficulty; and as for the City it has little but the Name.

This they say begins the Coast of Brasil; and from hence the Land goes away N.E. between the Islands, and under an uninhabited Shore, till you pass a Point of Land call'd Cont netuba, distance from the Point or Road of Belem 10 Ls: At the coming out from this Streight you must be careful of a Rist of Sand which shoots out from the N.E. Point of St. Island, and makes a long Hook, bending eastward towards the Shore above 5 Ls in length; and opposite to which from the Main runs out another Sand, making another sharp Point; to

that



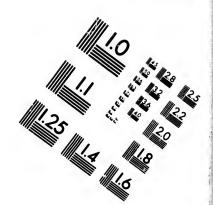
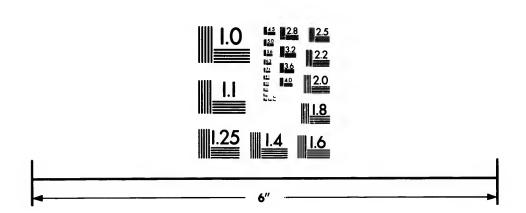
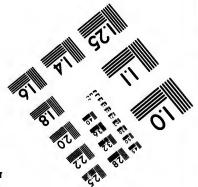


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Sailing Directions for the C

that the Passage, or Fair Way between them, makes a kind of Streight of about 2 Ls wide: You must find the Channel

by your Lead.

From this Streight to Punta de Pedras, the Course is E.S.E. or thereabout, the dist. 7 Ls: The W. part of the Course is full of small Islands and Shoals lying off from, and round about them; so that 'tis dangerous going within 3 Ls of the Main. There are some Inlets and Rivers also come in behind those Shoals; but as there are sew or no Inhabitants on the Main, and none at all in those Islands, Navigation has no Business there. Point 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 de Pedras, or the stony River, the W. Point of which runs far out into the Sea, and joins the Flats of the Islands mention'd above: So that at that Point the Mouth of the Rio d' Ama-

zones may be faid to end, and not before.

S.E. by E. from Point de Pedras, and distant from the River de Pedras about 5 Ls, lies the Rio de Cayta, or Pyrva, formerly call'd Rio Fleman, or the Dutch River. On the N. Point of the W. Shore of this River is a large Fortification call'd Fortaleza de Pyrava, 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 before the Town, or on the W. side under the Lee of the Castle. The Portuguese send some Vessels in here to buy Provisions, but 'tis not much frequented.

From the Rio de Cayta the Course is E.S.E. to the Rio Tury the distance 40 Ls. Between them lies the Casa de Vygia, the Rio Rodomonta, Rio Guropy, Rio Carara, and several other Places of small note for want of Commerce; otherwise they have many of them very good Bays and Roads for Shipping. In the Mouth of the Rio Tury, and, as it were, blocking up the Harbour, lies the Island of St. John, a long narrow unequal piece of Land, having a Rist of Sand running off N. from it, as big and long as it self, and much broader; this Island lying just off of the River's Mouth, makes a very good Harbour on the inside of it, as well as in the Mouth of the River it self; but 'tis very difficult going in or out, here being no Pilots to be found.

This Coast is fair and clean, but unfrequented. From St. John's Island the Coast shoots out a little N.E. to the Island Sypomba, dist. about 7 Ls. In the way lies Barryeras Vermellias, where there is a large Bay, and very good anchoring, as there is also within the Island to the eastward of the Bay: But here is no Shipping or European Plantings; so that all these Bays seem to be uteless.

S.E. from Sypomba lies a Range of Islands, making the great Bay of Para; one of them is call'd the Island of Para, within which there is a Portuguese Fort, from whence the Province has its Name; also a small River of the same Name, in the Mouth of which is good riding for great Ships, the Island breaking off the Sea, and two high Points securing it from both the N. and E. Winds. E. by S. from thence lies the Bay de Cabelo de Velba, a large Bay, where is good anchoring for small Vessels.

At the Mouth of this Rio de Para there is a Portuguese Town call'd Villa de Para, with a large Fort having a Plat-

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On the S. fide of this Harbour lies the *Portuguefe* City of *Maranhao*, where they have a very confiderable Trade effecially for Rice and Tobacco.

The Harbour is perfectly secure, the Ground good, clean from Rocks or Shoals, and you ride in 8 to 10 Fa. with a Head-sast a-shore just under the Citadel. The Entrance into it lies in double; there being a triangular Shoal just in the Mouth of the Passage, the Channel lying in on the N. and on the S. sides of the Shoal, under the Cannon of the Fort call'd Fortaleza de St. Philip, which is on the N. and the Citadel which is on the S.

The Mouth of the River is 4 Ls. broad, opposite to this Harbour: 'Tis call'd a great River by the *Portuguese* Maps, but others say there is no such River at all, and that it is only a Bay receiving three small Rivers into it: The Dispute is not to our Purpose; 'tis sufficient to observe, that the Mouth or Opening passes between this Island and the Main, and is a very good Road for Ships of the greatest burden.

There are likewife feveral good. Harbours on the W. fide of this Gulph, where the Portuguese have some Settlements, and load several Ships with the Product of the Country.

load feveral Ships with the Product of the Country.

On the other fide of the Island eastward there is also another Channel of the same Gulph, which they call Barra de Tapary; it goes up to a little Bay or Road call'd Estreza or Streight de Tapyroza. On the E. Coast of this Channel or Streight lies another Settlement call'd Santa Maria, 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 largest Ships may ride shelter'd from all Winds.

Thus the Island Maranhao lies fair in N. and S. embayed in this great Gulph of Maranhao, and seems to be surrounded with good Harbours and good Roads: the Navigation within among the Islands cannot be described, being for nothing but small Boats.

From Maraubao the Coast trends away E. by S. and E.S.E. being generally a flat Shore, but with several good Rivers and Harbours, which however have little Commerce; and most of the Rivers also are barr'd and block'd up with Sand, and render'd unnavigable for great Ships.

From the Point or Cape of Arbrasec, to the Barracco de Tortugas, or the Harbour of Turtles, is 60 Ls E.S.E. the Coast all flat as above, so that you must not come within 4 to 3 Ls at the nearest; nor is there any anchoring but in the open Sca upon all this Coast, except in two or three particular places, which it would be hard for a Stranger to sind. N. B. If you are blown upon this Coast, and are unacquainted, you may take a Pilot at Maranbao.

In this Barra de Tortugas, or Turtle Harbour, is very good anchoring in 5 to 7 Fa. and good Ground; but as the Flats on the Shore stretch out far into the Sea, and make the Mouth of the Harbourvery narrow, you must found your way in: for as here are few or no Inhabitants, at least of Europeans, you must expect no Pilots either in or out.

but your Course for 6 or 7 Ls must be N.E. by E. because of a long Shoal of Sand which lies off, ranging with the Shore to the Ls. There is a large Channel within it, and se-

just 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.

This Coast is fair and clean, but unfrequented. From St. John's Island the Coast shoots out a little N.E. to the Island Sypomba, dist. about 7 Ls. In the way lies Barryeras Vermellias, where there is a large Bay, and very good anchoring, as there is also within the Island to the eastward of the Bay: But here is no Shipping or European Plantings; so that all these Bays seem to be useles.

S.E. from Sypomba lies a Range of Islands, making the great Bay of Para; one of them is call'd the Island of Para, within which there is a Portuguese Fort, from whence the Province has its Name; also a small River of the same, in the Mouth of which is good riding for great Ships, the Island breaking off the Sea, and two high Points securing it from both the N. and E. Winds. E. by S. from thence lies the Bay de Cabelo de Velba, a large Bay, where is good anchoring for small Vessels.

At the Mouth of this Rio de Para there is a Portuguese Town call'd Villa de Para, with a large Fort having a Platform of Cannon by the Water's Edge, commanding the Road; and above that, upon a high Rock, is the Castle, enclos'd by a

strong Wall of Stone, also 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 almost 2 Ls over at the Town, and you may ride in 15 Fa. within Cables length of the Shore, and 10 Fa. close under the Walls of the Fort. Many Ships use this Port for loading Provisions, which are very plentiful; also for Tobacco, which they carry to the Bay of *Phernambuco*, to load on board the great Ships for *Europe*.

In the fame Course, and distant from the Island and River of Para about 9 Ls, lies the Cabo de Cuma, the most noted Point of all this Coast, as being the E. Boundary of the Coast of Para, and the W. Boundary of the great Gulph of Maranhao:

This Cabo de Cuma lies in Lat. 2 d. S.

The Gulph of Maranhao is a deep Bay full of an infinite Number of small Islands, the Channels of which are not to be describ'd: On the E. part they are so thick set, that they spoil all Navigation, except by Canoes and small Boats, by which they pass from one another.

The breadth of the Gulph from Cape Cuma on the W. Bank of the River Maranhao, to Cabo des Arbres Sec, or the Cape

of dry Trees, on the E. is no less than 15 Ls.

In the W. part of this Bay, and N.E. from the Mouth of the River, lies the Island Maranhao, which is large, and commodiously situated for Navigation, and consequently for planting a Colony. On the W. side of the Island there is an excellent Harbour, being a mere Inlet of the Sea, no River running into it; for the Island is too small to have any great Rivers in it, being no where above 5 Ls long, and about 2 Ls broad.

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In this Barra de Tortugas, or Turtle Harbour, is very good anchoring in 5 to 7 Fa. and good Ground; but as the Flats on the Shore stretch out far into the Sea, and make the Mouth of the Harbour very narrow, you must found your way in: for as here are few or no Inhabitants, at least of Europeans, you must expect no Pilots either in or out.

From this Harbour the Coast lies E. half a Point southerly; but your Course for 6 or 7 Ls must be N.E. by E. because of a long Shoal of Sand which lies off, ranging with the Shore for 12 to 13 Ls. There is a large Channel within it, and several Rivers and Openings, which seem to have good Anchoring-places in them, and by the breadth of their Waters to be navigable far up; but as it is an unfrequented Coast, a Stranger ought not to entangle himself among those Shoals; for at the E. end of that long Bank, the Passage out is very narrow and dangerous; other Shoals lying beyond it, and a slat Shore also running out from the Main, which together almost shuts in the Passage at that end; those Shoals also not being sounded, at least as we can yet be inform'd of.

For these Reasons those Ships which come out of the Barra de Tortugas, should stand away to Sea N.E. by E. as above, till they come clear of that long Bank of Sand, and then steer away E. and E. by S. for the Bahia Baxa, dist. from the Tortugas Harbour about 30 Ls: Almost in the Midway lies the Punta das Baxas, or the low Point, dist. from Tortugas 18 Ls, and from the Bay 12 Ls.

This Punta das Bassas is according to its Name a Cape of Shoals, for it is a foul Shore, furrounded with Rocks and Shoals for almost: Ls off to the Sea N. and N. by E. From thence you may viil under Shore, and within the Banks of Sand, which still lie off of the Main as before; but the Channel between is at least 2 to 2 ½ Ls wide; only you must keep a Boat a Head-sounding as you go, whereas if you keep without the Banks, you have a clear Coast, and need sear no Dangers, but what are to be seen long enough between you come near them.

At the Babia Banayou have good anchoring, hard Ground and deep Water: a Bank of Sand, which lies along Shore and fair thwart the Bay, keeps off the Sea, and breaks the Force of it, when the N. Wind blows, which comes right in; and the Land on both fides shelters you from all other Winds.

S.E. by E. from the Bahia Baxa, dift. 10 Ls, lies the Rio Laguariba, where the Portuguese begin to plant again; for except about the Island Maranhao, and some few other Places, all this Country from the Rio de Amazones hither, and 20 or 30 Ls farther still, was usually called the Wild Brasil or the unfrequented Coast: But here they have a Fort on the W. Point of the Entrance into the River, called Fortaleza de St. Lawrence; and the Point of the River is also called Cape St. Lawrence, as the other Cape is called Punta de Onzan.

From the Entrance into this River to Cape Cors is 18 Ls. the Course S.E. by E. as before; the whole Coast is clear either of Rocks or Shoals, and has good gradual Soundings, till you come to the Cape it felf: but there the Shore is foul, and full of Rocks, which lie off for two Ls and more into the Sea. On all this Coast, from St. Lawrence hither, you have a fair Strand, but no River or Creek, Bay or Harbour of any kind: to you can have no bufiness to put in to the Shore, and you may do well to keep an Offing of 5 or 6 Ls all the way as you go towards the South.

From Cape Cors the Course is the same to the Great Salinas. or the Salt-Bay, a Harbour famous over all the Brafils for Ships coming to load Salt. Between Cape Cors and the Salinas, almost Midway, you will see the Monte Vermelhas, or the Red Hill; the Dutch (for they gave Dutch Names to all the Places on the Coast when they possess it) called it Rooden Burgh, it is a high Mountain like a Sugar-Loaf, standing near the Strand, and is feen above 15 Ls to Sea, and is therefore an excellent Mark to know the Coast by.

When you make this Red Mount, you may stand right in with the Shore, till you come into 6 Fa. but go no nearer, because there runs a Riff of Sand with several funk Rocks upon it. firetching out into the Sea E.by N. from the Point; but keep your Lead going, and you have nothing to fear. From this Point to the Harbour of the Grand Salinas, the Coast measures 11 Ls by the Scale, on the Land, but may be accounted 13 by Sca, be-

caule of your keeping 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 lie on the W. side; some near the Point, and others, which are the chief, lie 6 or 7 Ls up the River due S. trance into the Harbour lies in Lat. 3 d. 40 m. S.

As the Entrance into this Port is thus from the N.W. so in coming out you must be especially careful; for to the N.E. lies 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 dist. of 3 Ls; but then they are joyned 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 being not above 2 - Fa. Water upon it: There are also many small Sands in the Channel, which none can fail among but those that are well acquainted. There are indeed good Channels between them, in most of which are

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hereabouts down to Cabo St. Roquo, which lies 3 Ls E by N. from Rio Siara.

Off of this Coast, dist. 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 interspersed, reaching 18 Ls in length, and at the E. end especially 8 Ls in breadth: At the W. end it runs off to a sharp Point, and throws out a long narrow Spit of Sand, which reaches quite to the Baxos de Salino which however Ships do run over in many Places.

These Shoals of Rocks and Sand growing broader at the E. end, they shoot out a Point, which reaches due S. towards the Main Land directly opposite to Cabo do St. Roquo. On the other hand, from the Cape it self there lies off a Riff of Rocks, which not only surround the Point on every side, but lie out from the Shore due N. at least a L, and almost meet the S. Point of the Shoal as above.

The Channel between those is the only Passage leading thro' upon all this Coast, which is not above a Mile over. However, the Depth is good, having 4 Fa. in the narrow of the Strait; and Pilots will carry you thro' very well, but no Stranger ought to venture.

These Shoals are steep too in the inside, so that you may run within half a Mile of them with your Lead in 5 Fa. all the way E. and W.

Under Cape St. Roque, from whence these Shoals take their Name, lies a deep Bay, called by the Dutch de Smienda Bay, where is very good Riding: Also at the bottom of the Bay comes in a River, called by the Portuguese Rio do Aguada. In this Bay you have from g to 3 Fa. very good holding Ground, and safe from all Winds.

From this Cape St. Roque the Coast of the Brasils turns short to the southward; and whereas it lay before E. and W. with very little Variation, viz. a Point or two at most, now the Land falling off, the Coast lies S. by E. and N. by W. varying very little to Cape de Lucena; in which Course, as the Coast is more frequented, so we find it better surveyed, and a more exact Account of the Soundings, Distances and Bearings than we had before.

From the Strait off of Cape de Roque to the Mouth of the Rio Grand is 11 Ls; the Courie is under a fafe 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, close to the Shore, that is, within a Cable's length of the very Strand.

The Entrance into the Rio Grand lies N.E. and S.W. You must stand off from the northermost Point to Sea at least 3 Ls, if you come from the N. for that Shore is all foul, and still of Rocks on both sides the Point; on the N. side as far as the Mouth of the Rio des Carlutas, which is almost 5 miles, and on the S. side it continues soul for at least 3 Ls within the Harbour, and up the River.

In the Mouth of the Entrance lies a four square Shoal, with

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Mouth of the Port, but 4 and 3 Fa. in the Entrance: The River is navigable far into the Country, but the Salt-Ponds lie on the W. side: some near the Point, and others, which are the chief, lie 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. so in coming out you must be especially careful; for to the N.E. lies a great Bank of Sand, with many dangerous Rocks upon it, called Banos de Salino, or the Shoals of Salina: They lie off from the Shore due N. at the dist. of 3 Ls; but then they are joyned 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 being not above $2\frac{1}{4}$ Fa. Water upon it: There are also many small Sands in the Channel, which none can sail among but those that are well acquainted. There are indeed good Channels between them, in most of which are 4 to 6 Fa. but you must have a good Pilot at the Salinas to carry you thro.

When you are over the Riff that joins the Baxos de Salino to the Shore, you have a clear Coast within the Shoals all the way to the Rio Siara, which is one of the most considerable

Ports on this part of the Brasils.

These Shoals called Baxos de Salino stretch from W. to E. about 10 Ls, and are in some places 3 Ls over, besides a great Ledge of Rocks which lie to the westward of them at the dist. of but half a L, which lying triangular are about 2 Ls over, and lie N. by E. from the Mouth of the Salinas.

Being over the Riff which joins these Shoals to the Main, you must keep an Ossing 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 Course; 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 pre-

lently.

From the Rio Siara the Course is E. by S. the going as before within the Sands and Rocks, is 50 Ls: in the way there are several good Bays and Harbours, but sew of any Trade. There is good anchoring in the Bay Parduba, where you ride within a Sand which lies on the E. side of the Entrance in 3 to 4 Fa. Water, and well secured; the Channel goes in on the W. side, the Point of which is called Punta de Pedras, and has 4 Fa. in

the going in.

About 10 Ls E.S.E. from Punta de Pedras is the Bay or Bahia Brandihi, where there is good Anchoring in 5 to 6 Fa. but no shelter from the N. Winds, which blow right in: From thence the Shore is full of good Roads, as at Surgidoura, Punta del Gade, the Punta de Siara, and then the Port of Siara it self, where there is very good anchoring in 5 Fa. and well secur'd. But most of all these last Harbours require the help of Pilots to bring you in, who may be had at several places, the Portuguese having some small Settlements

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bour, and up the River.

In the Mouth of the Entrance lies a four square Shoal, with some dangerous Rocks in it; and S.W. from that lies the Point of Natal, on the Extremity of which the Portuguese have a strong Fort called Fortaleza des Tres Magos, or the Castl of the Three Kings: You may go in on either side the Shoal of Rocks, but the Channel on the N. side is the best and the broadest; there you have 6 to 7 Fa. in the Fair Way, and 4 to 5 Fa. quite up.

On the S. Shore of the River, about 3 Ls from the Castle, lies the Town of Natal, before which lies the Road, where you have 4 to 5 Fa. very good Anchoring-ground, and well secured from all Winds: The River is navigable farther up; some Portuguese tell us 'tis so for 100 Miles, but we have no Sur-

vey of the Channel, so we can give no Account of it.

From the Rio Grand the Coast trends away S.S.E. 3 Ls to Punto Negro, and to the Rio Pirangy, which I name only because there runs a Riss of Sand off of Point Negro, which you must give a Birth to of at least 2 Ls: for the rest you have a fair Coast with 6 to 8 Fa. and good Soundings all along the Coast.

Off of *Point Negro* E. by N. and dist. about 4 Ls, there lies a Ledge of Rocks in the Sea, stretching 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 less than 4 to 6 Fa. Water over them, so that the Ships pass ordinarily over

them, without Danger, especially small Ships.

From Point Negro the Coast trends on S.E. to Point de Luena, dist. by the Dutch Measure 20Ls, the whole Coast between full of good Harbours, Bays, Rivers, and Openings, so that Ships cannot want Anchorage; the Ground being also generally a good holding Sand, or fandy Clay. The Bays, &c. in this Course are, 1. Porto de Buzios, a barr'd Port; yet small Vessels go in easily, and have good Riding when they are in. 2. Rio St. Juan de Stau; there is a Sand lies thwart the Harbour's Mouth, but you have a good Channel on the W. side of the Sand; within is a very good Harbour, where you have 6 to 7 Fa. 3. Bahia

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de Tanbanty, a good Road, the no Harbour; the Riding is made fate by the Sands which lie off within a L of the Shore. Rio Congohayon, a very large and fafe Harbour, the Entrance of the Opening 1 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 small Bay on the E. side of the River, where Ships go in to load the Country Produce, for here are but few Plantations of 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. Bahia de Treison, a large deep Bay, and the Entrance very wide, but made narrow by two Shoals shooting out from either Point, till they bring the Mouth of the Bay from 4 Ls wide to less than two. 7. Ilfa de Manguas, a little Island in the Mouth of a small Bay, behind which Island there is good Anchoring. 8. Rio Doce, or Dulce, 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 Tarmouth-Roads in England. There are several others of less 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 Lucena the Brasil Ships bound for Europe rendezvous to make up their Fleets, as the Spaniards do at the Havanna.

N. B. South from the Point de Lucena the Portuguese

have a Fortification, call'd Fort St. Antonio.

Punta 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 shoots out S. opposite to Cape Ledo, where there is also a Portuguese Fort: And those two Forts make the inner Passage or Mouth of the River, the Channel 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 Island Fratres, or Brothers, at the N.E. end of which is another strong Fort, so that the Entrance into this great River is defended by three Forts, the best of the Channel goes in on the S. side of the Fort, and also of the Island. The River is said to be navigable above 30 Ls up the Country; but as we are not certain of it, 'tis not material for us to enquire, since 'tis but of little use 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 Coast trends on due S. to the Porto dos Francezes, dist. 10 Ls. This is a large Bay, into which several Rivers empty themselves. There is good Riding in it, but the N. Shore is rocky and soul. Between these two

lies Cape Blanco, and also the Rio Gramama.

All along this Coast there lie small narrow Shoals, parallel with the Shore, like the Grounds off of the Irish Coast between Wexford and Dublin: The Channels between these Shoals and the Main are narrow and foul, neither is there any depth of Water for Ships: One Fa. to 1 ½ is the most for above 20 Ls in length; but the Sea, at an Offing of about a L

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with Sands and Shoals, that the main Entrance is by the Punta Marine, an Island where the Dutch built a Fort to guard the, Entrance into the Harbour of the Recief: Below this Fort more out at Sea, stood the City of Olinda, which the Portuguese call Olinda de Pharnambuquo. By this City lies the Entrance into the Port, and here the Ships also had a Road; but the City was demolished by the Dutch, and another built within a long Peninsula, which runs from the Point S.W. towards the Main: When the City was removed, the Harbour also was removed, and the Ships rode perfectly sheltered within the Point of the Peninsula, with three strong Forts, which guarded the Port, viz. One on the Point called the Recief; which afterwards increased to a Town; one on the Island called Authonio Vaz, which grew up also into a City, and was called Mauritz. stadt, and one due N.W. from the Road, called Waardenburgh.

We have nothing to do here with the History of the Dutch taking and losing this part of the Brasils, but to note what is to the present purpose; that as here was the Capital of the Dutch Colony, so here was the Harbour of their Merchants

Ships, and also of their Ships of War.

The Harbour is good, the difficult; there is 4 to 5 Fa. under the Lee of the Point, on which stood the ruin'd City of Olinda; and the Ships rode there when strong enough to defy an Enemy; but if it was otherwise, they run in under the Cannon of the Punta Marine, behind which there is 3 Fa. to 3 1 at low Water; so that they ride there well secur'd also.

It is absolutely necessary for any Stranger to take a Pilot here, if he is bound into the Haven. The *Portuguese* bring a very great part of the Loading of their Fleets from the *Brasils*

from this Port, especially Sugar and Tobacco.

From this Port the Shore pushes out a little to the E. and the Coast trends S. by E. to Rio St. Angelo. Here is a large Opening, but no depth of Water, it being so block'd up with Shoals, that it is render'd almost useless to Navigation; nor can any Ships enter here: It is dist. about 5 Ls from Olinda. There is 4 Fa. without the inner Sand, and within the outer; so that there is a very good Road, tho not a complete Harbour.

N. B. In all this Coast you have the same Soundings, and the same Depths of 7 to 9 Fa. in an Offing of 3 to 4 Ls

off of the Sands.

From Rio St. Angelo the Coast continues to thrust out to the E. and the Course lies S.E. by S. from thence to Cabo St. Angustine. This Cape lies in Lat. 8 d. 24 m. S. and is the first Land of Brasil which the European Ships make when bound to the Bay, and taking their Departure from the Coast of Africa, or from the Cape de Verd Islands. There is very good anchoring in a little Bay to the southward of this Cape, under the Cannon of two good Forts which the Portugues have built there, one call'd the Puntal, and the other Portuleza de Nostra Senhora de Nazareth: The Harbour also 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 Portuguese, whereof two are on the Island Houten.

There are feveral Rivers which come into the Channel behind this Island, but none navigable for Vessels of burden; yet the Port is much frequented by the coasting Vessels of the Port

strong Fort, so that the Entrance into this great River is defended by three Forts, the best of the Channel goes in on the S. side of the Fort, and also of the Island. The River is said to be navigable above 30 Ls up the Country; but as we are not certain of it, 'tis not material for us to enquire, since 'tis but of little use 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 Coast trends on due S. to the Porto dos Francezes, dist. 10 Ls. This is a large Bay, into which several Rivers empty themselves. There is good Riding in it, but the N. Shore is rocky and foul. Between these two

lies Cape Blanco, and also the Rio Gramama.

All along this Coast there lie small narrow Shoals, parallel with the Shore, like the Grounds off of the Irish Coast between Wenford and Dublin: The Channels between these Shoals and the Main are narrow and soul, neither is there any depth of Water for Ships: One Fa. to 1 \(\frac{1}{2}\) is the most for above 20 Ls in length; but the Sea, at an Offing of about a L without the Shoals, is very clear, and has from 10 to 13 and 15 Fa. till you come off of Rio Guiryo, and then 7 to 9, and 4 to 5 Fa. close on the Back of the Sands.

From Rio Guiryo the Course is still S. and S. by E. to the Rio Guiana, the Shoals reaching all the way as before, the dist. about 4 Ls. Here the Channel within the Shoals widens to a L local, and deepens to 2 Fa. so that small Ships may run thro' here to the Island Tamerica. The same Channel continues round the Island, coming out again at the S. end of it, where there is 3 to 5 Fa. again, and a sair Road for large Ships. At the N. Point of the Island Tamerica is a Fort built, or at least enlarg'd by the Dutch, and call'd Fort Kostverlooren, or the

Fort upon the Forfaken Coaft.

There are abundance of finall Rivers and Openings within this Island, but of little Consequence: The Entrance at the N. end of the Island is so narrow, occasion'd by a Spit of Sand which runs off from the opposite Point, that such Vessels as go in are oblig'd to come close under the Cannon of the Fort which is upon the Island, the Passage or Channel not being half a Mile wide. S. from this Island the Shore is cover'd with Shoals of Sand, and some Ledges of Rocks. There is indeed a wide fair Channel lying next to the main, and within all the Sands; 'tis half a L wide, but has no depth of Water for any Ships of burden, there being not above 1 + Fa. in many places, and then shoaling to 5 + and 6 Foot: Such Ships therefore as ule this part of the Harbour, must run out to Sea N.E. 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 due S. and are fure to go without all the Sands.

Holding this Course about 8 Ls, brings you the height of the Recief, being the Entrance into the Rio de Pharnambuquo: The River it self lies at least 3 Ls farther S. but is so block'd up

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From Rio St. Angelo the Coast continues to thrust out to the E. and the Courle lies E.E. by S. from thence to Cabo St. Augustine. This Cape lies in Lat. 8 d. 24 m. S. and is the first Land of Brasil which the European Ships make when bound to the Bay, and taking their Departure from the Coast of Africa, or from the Cape de Verd Islands. There is very good anchoring in a little Bay to the fouthward of this Cape. under the Cannon of two good Forts which the Portugue 12 have built there, one call'd the Puntal, and the other Fortaleza de Nostra Senhora de Nazareth: The Harbour also 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 Portuguefe, whereof two are on the Island Houten.

There are several Rivers which come into the Channel behind this Island, but none navigable for Vessels of burden; yet the Port is much frequented by the coasting Vessels of the Portuguese; the Ledges of Sand and Rocks, which as it were cover this Island, render the Port very fecure, and for Ships of

finall draught make it convenient for Navigation.

Due W. from Cape St. Augustine, and opposite to the Rio de Sarinhaym, lies the Island Alexo, well known for two excellent Roads; one on the W. side of the Island next the Main, where you ride well shelter'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 Island, where the Road is secur'd by a long Rist of Rocks, which run out near a L from the Island, making a Bend like a Hook towards the W. On the back of the Island N. there is a clean Strand, and 9 to 12 Fa. with good Ground; but no Riding except in the open Sea, which if a N. or N.E. Wind should blow, brings a great Sea in, and would endanger their running on a Lee-shore.

From this Island the Shore of the Main falls off again westerly, but the Course is S.W. by S. to the Barra Grande, about 15 Ls. On all this Coast keep still an Ossing of 3 to 4 Ls. where you will have the usual Depth of 6 to 10 Fa. with good gradual Soundings: There are several small Harbours and Roads between, but the Entrance into them is generally difficult, and it is but in few Places that Pilots 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 Salgado: The River is not navigable except for finall Boats; but the Harbour is very good, lying behind the Sands: The going in is very narrow between the Riffs, which almost meet together, making two Channels; the northermost has 5 Fa. in it, and the fouthermost but 4, having a small Shoal of Sand between.

From hence the Coast lies fair S.W. to the Rio Lagao de S.al, or the River of the Salt Lake, dist. 13 Ls. There are several small Rivers in this Course, but of no Importance. On the N.E. fide of the Entrance into these Lakes there is a good Road in a round Bay, under Punta Saragoa or Saragoza; there is a long Rist of Sand shoots out from the Point a full L into the Sea to the S.S.E. which breaks off the Sea, and makes it very good riding. Within that Rist the Ships lie in 5 to 7 Fa. close under the Shore. The Entrance into the Lagao de Sal lies S.W. from this Bay, not full one L dist. from the western Point; the way in lies N.W. and S.E. There are two of the great Lagaos, or Lakes; one call'd the Lagao de Sal, goes 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 goes in from the sirst, aster about a L within the Entrance, and lying away N. is call'd the North Lake, about 3 Ls in length, and 1 L and half over.

From the Lagaos de Sal the Coast trends on S.W. to the River St. Francisco. There are several inland Lakes near the Coast, which spread themselves as the other do; but we do not find they are navigable, or at least made use of; as Lagao & Acarpeba, Lagao de Tagueacu, de Ipochi, and several others. The distance between the Entrance into the Lagao de Sal and the Rio St. Francisco is 25 Ls, the Shore sull of Shoals, Sands and Ledges of Rocks, till they come to the southward of the Rio Corospo; then you have a clear Strand, and a sair Ossing to the Entrance of the great River it self.

Off of the Rio Coroipo lie those known Rocks and Sands call'd the Baxos Diego Roderigues. or the Shoals of Roderigues; they are nine in Number, and lie N.N.E. and S.S.W. in three or four several Ranges, There is a good Channel between the innermost Shoals and the Main, where you have 4 Fa. and clean Ground; but the Passage is narrow, and you must keep your Lead going, and be very careful, especially on

your Larboard-fide.

E. from the Banos Diego Roderigues, dist. about a L. lie two other Risso fRocks call'd Recisso de St. Francisco, being in the Fair Way from the N. Coast to the Rio de St. Francisco.

N. B. All the Ships of burden which come from Pharnambuquo or other Ports on this Coast, go without the Baxos Diego, keeping an Ossing of at least 4Ls, in 9 to 14 Fa. in which Course they are sure to meet with the Recissio de

St. Francisco, which they must take care of.

The Recisis are two separate Ledges of Rocks and Sand, stretching due N. and S. they lie in Lat. 10 d. 30 m. S. There is a good Channel between them, near 2 Milebroad, 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 sure of 5 to 10 Fa. all the way to within 3 Ls of the Mouth of the Rio St. Francisco. There is a large Bank of clear Sand without Rocks, which lies off in the Sea S. by E. from the Recissis, and due E. from the Main, distance from the first about 4 Ls, and from the latter almost 5 Ls. 'Tis a large Bank lying N.E. and S.W. in an oblong Square, 3 Ls in length and about 1½ in breadth; but it is not dangerous, having 6 Fa. on it at the least: Yet 'tis needful to direct the sinding it, that Sailors may know where they are, for 'tis a sure Guide coming from out at Sea, to direct to the Mouth of the Rio St. Francisco, which

Directions for the Coast of Brasil.

re is a long Riff to the Sea to the very good riding. under the Shore. . from this Bay, the way in lies agaos, or Lakes; 7 Ls N.W. and later, but of no from the first, ataway N. is call'd , and half over. on S.W. to the id Lakes near the rdo; but we do use of; as Lagao , and feveral onto the Lagao de hore full of Shoals, b the fouthward of strand, and a fair

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30 m. S. There broad, and with ell acquainted to you are fure of he Mouth of the f clear Sand withfrom the Recifis, first about 4 Ls, Bank lying N.E. and about 1½ in Fa. on it at the , that Sailors may ming from out at Francisco, which

ward of this River was for many Years call'd the Dutch Brafil.

On the N. Bank of the River the Dutch built a Fort, which still retains the Name of Fort Mauritius, close above which lies the City of Penedo. Between the City and the Sea the River is full of Islands, lone of which are very large, as Ruyter's Island for one: Hither small Coasting Ships come to load Tobacco, Cocoa, and Fruits.

S.W. by W. from the Mouth of Rio de St. Francisco lies the River Serugippa, a much less River than that of St. Francisco, but with a better Entrance, having 2 and 3 Fa. on the Bar, and 4 to 5 Fa. feveral Ls up the Channel. There are 2 Riffs of Sand, which shoot out from either Point directly into the Sea S.E. which make the Entrance about half a L wide; and just without the northermost Riss a little Bay, where there is good anchoring in 6 Fa. good hard Sand, and opposite to a Portuguese Town called St. Christianao, where Shipping generally lie to wait for small Vessels to load them from Rio St. Francisco; the dist. from which River to the Rio Serugippa is 6 Ls upon a Line; but measuring round the Sands to come at the Entrance of the River, 'tis full 9 Ls.

S.W. from the Mouth of this River lies the River Vaziabaris, the Mouth of which River is also very much block'd up with Sands, and especially one large Sand in the very Entrance, which lies thwart the Channel two thirds over: but there is a very fair Channel on the W. fide of the Sheal, in which you have 3 to 5 Fa. quite thro'; and yet without the Channel it is shoaler than in the very Entrance. The Ciry (so the Portuguese call it) of Serugippo del Reylies on the N. Shore of this River, about 9 Ls up the Channel, including the Turnings of the River; and finall Vessels go quite up to the

Town in 2 Fa. Water, From hence the Coast is called, by the Name of the River, the Coast of Vazabaris, as is also the next Point called Punta de Vazabaris, which is the N. Point of the Entrance into the Rio Pyo Wie, a large River, as the others are, and a deep Channel, but barr'd almost up with Sands at the Mouth; so 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 lies Cabo Coleur, dift. about 10 Ls, with no Openings or Rivers between; nor are there any Shoals of Sand or Ledges of Rocks upon the Coast, but a clean fair Strand; and the same from Cabo Coleur to the Mouth of the Rio Ponico, the whole Coast lying N.E. and S.W. There are two or three small Rivers indeed close to the Cape Gartia das Villas, but of no importance.

All along this Coast 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 Ponico you have a very good Harbour, good Anchor Ground, and 5 to 6 Fa.

From the Rio Ponico the Shore lies S.W. by W. to the great Babia de todos los Santes, or the Bay of All-Saints; the dift.

which course they are sure to meet with the Recisso de

St. Francisco, which they must take care of.

The Reciffs are two separate Ledges of Rocks and Sand, stretching due N. and S. they lie in Lat. 10 d. 30 m. S. is a good Channel 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 fure of S to 10 Fa. all the way to within 3 Ls of the Mouth of the Rio St. Francisco. There is a large Bank of clear Sand without Rocks, which lies off in the Sea S. by E. from the Reciff's. and due E. from the Main, distance from the first about 4 Ls, and from the latter almost 5 Ls. 'Tis a large Bank lying N.E. and S.W. in an oblong Square, 2 Ls in length and about 1 ½ in breadth; but it is not dangerous, having 6 Fa. on it at the least: Yet 'tis needful to direct the finding it, that Sailors may know where they are, for 'tis a fure Guide coming from out at Sea, to direct to the Mouth of the Rio St. Francisco, which hes exactly 3 Ls S.W. from this Sand.

The Mouth of this great River is very wide, but the Entrance is narrow, being block'd up with three great Sands: The first is a Riff, which runs from the N.E. Point of Land, and stretches out in two Points like Horns, almost half Channel over: One S.W. and the other W. by S. Due S. from the S.W. Point of the Sand lies a large Flat or Shoal of Sand, triangular in Form, the Sides about a L equilateral: The W. fide of this Flat reaches N. almost to the S.W. Point or Horn of the Riff last mention'd, leaving a Channel of about half a Mile only, between them; and S. almost to another Riss, which firetches out E. from an Island call'd Ilha des Passaros, and blocks up the whole W. part of the Entrance, leaving a Channel between the faid Riff and the triangular Shoal much narrower than the other, and very difficult, also shoal and not

paffable by Ships of burden.

These are the only two Entrances into this great River: The first Channel has 2 Fa. in it, and the other but 1 that low Water; so that the this is a noble River when you are entred, yet it admits no Ships of burden. After you are entred, there is 5 to 9 Fa. in the Channel, and the Dutch fearch'd up the River above 40 Ls, and found it navigable for great Ships 30 Ls, for imaller Ships above 10 Ls farther; and for Barges and Shallops they suppose it might be navigable as much farther, the Stream flill appearing to be very large and deep. But all this is to no purpose as to Navigation, while the Mouth of the River is bar'd up with Sands and Shoals, and which cannot be remov'd.

The Entrance of the River, after you are thro' the narrow Paffage, goes in due N. for about 3 Ls, and then turns N.W. for 3 more, and then turning again to the N. for about 6 Ls it turns again N.W. and holds that Courfe as far as we have any Survey of it. The W. Point is call'd by the Portuguese Punta de St. Anthonio; and just within the Point lies the City of St. Anthonio, built by the Portuguefe.

N. B. This River was the Boundary of the Dutch Conquests in Brafil; from whence all the Coast to the north-

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S.W. from Rio iVie lies Cabo Coleur, dift. about 10 Ls, with no Openings or Rivers between; nor are there any Shoals of Sand or Ledges of Rocks upon the Coast, but a clean fair Strand; and the same from Cabo Coleur to the Mouth of the Rio Ponico, the whole Coast lying N.E. and S.W. There are two or three small Rivers indeed close to the Cape Gartia das Villas, but of no importance.

All along this Coast 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 Ponico you have a very good Harbour, good Anchor Ground, and 5 to 6 Fa. Water.

From the Rio Ponico the Shore lies S.W. by W. to the great Bahia de todos los Santos, or the Bay of All-Saints; the dift. to Cabo St. Anthonio, which is the E. Point of the Entrance into the Bay, is about 23 1 s. In this Course are very few Rivers or Openings; the chief is at the Island Praya de Zambi, lying at the Mouth of the Rio de St. Joanna. The Shore for all this length is a clear Strand, the Depths and Offings to be observ'd as before.

The Mouth of the Bay of All-Saints, like that of the Rivers last mention'd, is contracted by two Riss of Sand, (but without Rocks) running out from each Point: the Bay goes in due N. the E. Point is called Cape St. Anthonio, and stretches a great way into the Sea W. and from it a Riff of Sandruns out farther W. by S. above a L. fo that they threaten as it were to block up the Mouth of the Bay, and the rather, because opposite to this Point a long Riff from the other Point shoots out S.E. as if Nature defigued them to meet, and lock up the Bay, as is the Fate of Rio St. Francisco.

But the Difference is manifest; for tho the Entrance is narrow, compared to the vast Extent of the Bay within (being not a full L in breadth) yet the Channel is deep and fafe, having from 20 to 24 Fa. Water in the very Entrance, and 30 Fa. as well within as without; also there is from 10 to 16, 20 and 30 Fa. up to the Isle 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 past the Cabo St. Anthonio, lies the City of St. Salvadore, in a wide Bay, having a Shoal of Rocks called Baxos de Alherto lying before the Town; on one of which there is a strong Fort which commands the Road: and between these Rocks and the City is a very good Harbour, where Ships ride with great fafety, being well shelter'd by the Rocks and the Main from all Winds. N. from the Road, and which shelters it on that fide also, lies another Point of Land shooting W. into the Bay, almost as far out as the Cabo St. Anthonio does S. and a Riff of Sand running out from it still farther due W. almost a L into the Bay.

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Opposite to this City of St. Salvador lies the Island 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 Balco, making another Bay, in which there are abundance of Shoals too long to describe. This lesser Bay has a Channel running from it S.E. into the Sea; and we find by the Dutch Accounts that there is a good Depth of Water all the way to the very Mouth of the Channel, but that it shoals again there in the Nature of a Bar, from 6, 7 and 8 Fa. to 6 Foot; so that great Ships cannot pass in or out this way. However, 'tis well guarded with Forts too, by which Ships are secur'd also from Surprize by armed Boats.

This Channel running round the W. side, and between Taforica and the Main, makes it an Island. There are many
Harbours on the W. Shore of Taporica; the most that can be
said 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 St.
Salvador. There are no less than nine Forts upon the Shore of
the Bay, from Cape St. Anthony to the City; so that you may
be sure to ride in safety under their Cannon. N. B. The Bay

lies in Lat. 12 d. 16 m. S.

Likewise Ships ride under the same Security of Forts and Castles in the several Harbours in the Bay, as upon the N.W. Part of the Island *Taporica* in particular; two whereof com-

mand the Bay under Punta de Baleo.

S.W. by W. from the Mouth of the Bay of All-Saints lies the Entrance into the Rio de Comomoan, a great Bay full of innumerable Islands: The Channel in lies dist. from the Bay of All-Saints 23 Ls. The W. part of it runs up far into the Country, the Coast and Bay also bearing the same Name, being all called Comomoan by their own Charts. Between the Bay of All-Saints and the Rio Comomoan are several Islands considerable for the Plantations upon them, but no Harbours of note, till we come to the Morro de Santo Panlo, where there is a very good Harbour under the Fort upon the Island, and called Fortaleza de Morro; here the Coast lies due N. and S. The Islands ranging close with the Shore, having only simal unnavigable Channels between them and the Main, they are therefore reckon'd as the Coast of the Main.

South from this Island lies the Island of Suaguaripa; the Channel which parts them is called Barra de Tabatinga, 'tis a simil Channel, not for Ships, but Shallops and small Boats. On the Island stands the Villa de St. Anthonio, or the Town of St Anthony, cloic to the Sea; but the Shore is so slat off,

that there is no Road or Harbour near it.

From the S.E. Point of this Island which is called Punta de Suagnaripa, goes in the Opening of the Rio de Serinhaan: It is an Inlet among innumerable Islands, and either 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 same Name S.W. These difficult Places are so many also, that they are not to be described by Book or Chart; 'tis sufficient to say, there is a good Depth of Water almost in all the Channels, and even far up the Rivers: but you must take Pilots to carry you would go.

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Sea and the S.W. Winds, they make within a very good Harbour, which is therefore called *Porto Segura Veijo*, or the Old fafe Harbour.

N. B. This is the Harbour P. Al. Cabriota, the first Disco-

verer, took shelter in; and he gave it the Name.

S. from this Harbour lies the Rio Doce, a River of Business, and the 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 occasion'd by a long Tract of Islands, which lie before the Mouth of the Port in three or four Ranges, one Range without another, as also several Shoals and Ledges of Rocks, altogether extending along the Shore for near 15 Ls.

On the off fide of all these Islands, about 2 Ls to Sea, E. from the middle of them lies an Island larger than the rest, called Nostra Cytio de Mareny Fara, from the Passage which lies between that Island and the rest, which is called Canal Grando Taypas. Thro' this Channel, which is more than 2 Ls wide, the Ships pass which coast all this Sea from Rio Janiero

to the Bahia de todos Los Santos.

From this Canal the Course varies a little from the scite of the Shore, because of a yet greater Number of Islands and Shoals as well of Rocks as Sands, which lie out into the Sea from the Rio das Caravelos, and off of Punta de Agusypu, stretching N. and S. about 23 Ls, viz. from the great Mountain called the Pasqual, a little S. of the Mouth of Rio Jacho, in Lat. 17 d. 22 m. to Punta de Abreolhos in Lat. 18 d. 31 m. They reach out to Sea likewise due E. and W. full 20 Ls to a large Bank or Shoal of Sand, lying due E. from the Rio de Caravelos, called Baxos de Abreolhos.

In order to pass among these Islands and Shoals, some of which are very dangerous, there are two Channels, one called Canal Grande pour Navios de India, or the great Channel for

the East-India Ships.

N. B. The Portuguese Ships from Goa bound to Europe, usually make the Coast of Brasil about Cape Frio; and then steering N. come along this Coast to the Bay of All-Saints, in order to revictual, and get Convoy for Lishou; and in that Course pass thro' this Canal Grande, which is on that Account called the Channel for the India Ships.

Besides this, there is another Channel among the same Islands nearer the Shore, which the Dutch Charts call De Kleyne Canal, or the Little Channel; which small Ships, and Coasters that are well acquainted, often pass; but it is not safe for great Ships, and especially for Strangers, unless they

have Pilots with them.

From the Canal de Taypas mention'd above to this Canal de Navios India, the Course is S.E. dist. 28 Ls, a clear Coast without any Rocks or Shoals, with 20 to 26 Fa. (and sometimes more) all the way: Likewise the Channel it self is fair, being near 3 Ls wide, and 16 to 12 Fa. in the Fair Way; but a Stranger should have the Lead going as he passes; because of some Shoals on the W. side of the Passage.

On the E. side of this Canal Grande lie two other Islands bearing N. and S. from one another, the northermost called by the Portuguese Ilha Seco, or the Dry Island: The southermost is the Ilha St. Barb, or Barbara. There are two very good

de Morro; here the Coast lies due N. and S. The Hands ranging close with the Shore, having only small unnavigable Channels between them and the Main, they are therefore reckon'd as the Coast of the Main.

South from this Island lies the Island of Suaguaripa; the Channel which parts them is called Barra de Tabatinga, 'tis a finall Channel, not for Ships, but Shallops and finall Boats. On the Island stands the Villa de St. Anthonio, or the Town of St Anthony, close to the Sea; but the Shore is so flat off. that there is no Road or Harbour near it.

From the S.E. Point of this Island which is called Punta de Suaguaripa, goes in the Opening of the Rio de Serinhaan: It is an Inlet among innumerable Islands, and either 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 same Name S.W. These difficult Places are so many also, that they are not to be described by Book or Chart; 'tis sufficient to say, there is a good Depth of Water almost in all the Channels, and even far up the Rivers: but you must 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 dist. 8 Ls. In this Course you have a bold Shore, and may keep to 12 and 16 Fa. within \(\frac{1}{2}\) a L of the Main; but in the River it felf you

have no Depth for Vessels of Burden.

N. B. From the S.W. end of the Island Taporica, making the farthest Land of the Bay of All-Saints, the whole Coast of Brasil lies due N. and S. without any considerable Variation, to Cabo St. Thome, and only allowing two Points Variation, goes on so to Cape Frio, dist. from the Bay of All-Saints to Cape St. Thome 165 Ls, as follows.

From Rio das Contas to the Rio das Ilhas is 9 Ls, the Course The N. Point of the Entrance is called Punthe fame, due S. ta de Caon: the Mouth of this River is block'd up with Islands. from whence I suppose it had its name, the River of Islands; 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 fecur'd; also higher up on the other Shore, where there are some Portuguese Settlements. This River, as it is full of Ingenios and Sugar-Works, so it has much Trade; a great number of Ships come hither to load Sugars for the Lisbon Fleets, and carrying it to the Bay for the greater Ships: The S. Point of this River is called Praya de Lumba.

As the Coast trends away due S. for so manyLs, so the Rivers generally go in due W. (very few excepted.) The first of note is called the Rio Grande, tho not so great a River as some others the fame Name; the Entrance is not deep enough for great Ships. Off of the next Shore S. lies a long Ledge of Rocks. called Baxos de St. Anthonio, because they reach from the S. Point of the Rio de St. Anthonio almost to the S. Point of the Rio Grande. This Ledge of Rocks runs out N.W. from the Rio de St. Anthonio, flanting from the Shore about a L at first, to encreasing to above 2 Ls; at last, when by keeping off the

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of some Shoals on the W. side of the Passage.

On the E. side of this Canal Grande lie two other Islands bearing N. and S. from one another, the northermost called by the Portuguese Ilba Seco, or the Dry Island: The southermost is the Ilba St. Barb, or Barbara. There are two very good Roads under this Island, one on the S.W. side, and the other right against it on the N.E. side; so that whatever Wind blows, and whatever Distress 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. side of the Island is likewise securid by two other Islands lying on the out or E. side of the other, one called Illa Monte das Pedras, or the stony Mount, and the other Ilha dos Passaros.

From these Channels you have a fair Coast again; and bearing in with the Shore S.W. you go on due S. again, as before, to the Bay of Spirito Santto, dist. from the Canal de Navios

India about 35 Ls.

In this Course you have a great Number of Baysand Harbours, Roads and Rivers; and the Coast is adapted for Shipping, as the Traffick of the Country is for furnishing Goods to freight and employ them. These Ports are Rio dos Reys Magos, with a Town of the same 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 behind an Island called the Goeree, as likewise before the Monte dos Reys Magos, behind another Island called Isla de Reposa, named so from the safe, Harbour or Road between that and the Main. On the S. side of this Island the Land forms a large Cape called Punta Pera Coam.

The N. Point of the Entrance into the Rio de Spirito Santto is called Cape Tuberaon: here is a good Entrance, and a bold Channel up to the Town, which is called Porta, or Villa de Porta, where much Shipping is employed, likewise on the S. side of the Island de Don Jurga, which lies within the Rio de Spirito Santto. There is good anchoring before the Town of Azaredo, which is a noted Port for loading Sugar; and a Town near the Point is called Pan de Sucre, or Sugar, siom

the Number of Plantations of Sugar about it.

7 Ls farther S. from Pan de Sucre lies the Rio Guaropary; and from thence the Coast reaches still S. without any considerable Places, except the Lagos de Grande Piscaria, to Cape St. Thome, or St. Thomas, dist. from Rio Guaropary about 23 Ls. This sissing Lake is noted, because many Vessels are employed in sissing upon it; it lies in due W. as the other Rivers do, but immediately spreads N. and S. The Mouth of the River is not above a mile over, but the Lake it self spreads to above 2 Ls broad every way; and being very deep, has abundance of good Fish, which brings many Vessels to it, as above.

From Cape St. Thome the Shore falls off W. and changes the Course for about 30 Ls to Cape Frio, making a Gulph or Bay of near that Breadth, Cape Frio not coming out so far E. as Cape St. Thome; the Course in a Line from Cape to Cape lies

S S.W. and N.N.E.

In this Gulph are some small Islands, Rivers and Harbours, as Rio Sabador, and Rio des Bagores, and others. Here is good anchoring within the two Isles of St. Anne, under the N, side of Cape de Frada. Also about 4 Ls S. are some other Isles, called the Three Isles of St. Anne, South of which stands a very high Mountain called Monte Morro, which is seen far at Sea, and by which the Coast is to be known.

S. by E. from that Hill opens the Rio de Fermoza, a large River, but not a deep Channel: and from thence the Shore

pushes out again S.S.E. to Cape Frio, dist. 8 Ls.

From Cape Frio to the Rio Janeiro the Course lies W. by N. dist. about 12 Ls, viz. 10 Ls to St. Maria, and 2 from thence to the opening of the Rio Janeiro.

N. B. This is the third and most foutherly Port, from whence the Brasilian Fleets load for Europe; the other being the Bay of All-Saints and the River of Phernam-

buguo.

The Road in this Harbour is on the S. Shore of the River or Entrance before the Town of St. Sebastian, called also Janeiro, 'tis well secur'd both from Enemies and Winds; it is secur'd from the easterly and S.E. Winds by a Point of Land running out into the Bay, called St. Iago, with a strong Fort upon it; and from N.E. Winds by the Island Cobras, within which Ships usually ride at anchor in 8 Fa.

The Entrance into this Port at the Mouth of the River is very good, but narrow, two Islands and a broad Riff on the W. Point lying just thwart the Mouth of it: The eastermost of these is called Santa Cruz, and is wholly inclosed in a Royal Fortification called Forteleza de St. Cruz, which joins to the Main, except a very narrow unpassable Channel: The other is called Islands Between these two Islands goes in the main Entrance into the River, called Barra Granda; it is a good Channel, tho narrow, having 15 Fa. in the Fair Way, passing close under the Cannon of the Fort. Between the smaller Island and the Main, being the W. Point of the Entrance, is a small Channel called Barra de Nova Funda; and on the W. side of the Channel, tho not passable by great Ships, there is another Fort called Paon de Sequero, to secure the Channel from Shallops and small Boats.

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ons for the Coast of Brasil.

Within the Island goes up the Rio de Concepçon, on the S. side of which, 3 Ls from that Island, is the City as they now call it of Angra dos Reys, formerly called Neustra Seniora de la Concepçon; where Provisions are also had very reasonable.

N. B. As you come into the Road on the infide of Ilha Grande, at the northerly end of the Ifland, so you go out at the southerly: both the Passages are bold and good, and almost the same 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. Ilha Grande lies in Lat. 23 d. 5 m. S.

From the Rio Janeiro the Coast goes away W. by N. to the Island Marembaya; and then, leaving an Inlet for the Canal do Padras, or the Channel of the Fathers, in which there is 6Fa. Water, goes on to the Ilha de Grand Ingenios, or the Island of Large Sugar-houses, which is behind that which we call Ilha Grande. Behind this Island comes in the River Patagoa.

W.N.W. from this Island goes in the Entrance of the Rio Gnagendy, which opens into a large Bay, into which several other smaller Rivers empty themselves. At the bottom of this Bay to the W.N.W. lies the City of Angra dos Reys: There is very good anchoring in this Bay in almost any Depth. This Bay lies due W. from Cape Frio, dist. about 53 L.

From the Bay of Angra dos Reys the Land thrusts out again a little to the fouthward, and trends away S.W. by W. to the Island of St. Sebastiano. There are several other Islands of lesser note to the eastward of this Island, as Ilha de Victoria, Ilha des Porcas, or the Isle of Hogs, and some others. There is a Road for finall Ships between this Isle of Hogs and the Main, under a Cape on the S.E. Point of the Island called Punta dos Castillianos, but the rest are foul. In failing to the southward, you must go without all these Islands, and several more beyond them; and steering due W. about 20 Ls, you come to the Bahia or Barra dos Sanctos, that is, to Saints Bay. The City of dos Sanctos lies in an Island called Amiaz, on the W. fide of the Entrance into the Harbour, as does also the Town of There is good anchoring before the Port of dos St. Vincent. Sanctos, and also further up at the N.E. end of the Island before the Town of St. Vincent. There are abundance of imall Rivers come into this Gulph or Bay, and all the Ports well defended with Forts. On the W. fide of the Island goes in the other Channel called Barro de St. Vincento. The upper part of this Gulph turns away N.E. to Abdea de Trinidade. This River is all the way navigable, and in it there are feveral good Harbours for Imall Ships.

W. by S. from this Port lies another Rio Grande, distant about 10 Ls: at the N. E. Point of it lies a small Town called Nostra Seniora de Candillao, but this is not a Port of great business. From this River the Land draws round again towards the S. in a large Bay, but not deep in till the Coast lies due N. and S. to the Ilha de St. Catherina. There are some small Rivers and Bays between; but as the trading part of the Coast of Brasils is now almost over, the greatest Navigation of this part is for Provisions or for Hides, especially to shelter for Ships bound father S. and this is the reutan of

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Within the Bay, but without the Point mention'd above, lies an Island called *Ungalhamo*, S. of the Island: there is a good Road in 20 to 28 Fa. and here the great Ships wait for a Wind to carry them in and out, as their Course guides them. The Bay goes up N. beyond that Road 6 or 7 Ls; the Ships go to several Ports and Creeks within to load and unload: but if you are bound up, you may have a Pilot at St. Sebastian, for

all the Bay.

Here lies a long Island parallel with the Shore, called Isla Granda, being a Place frequently made use of by the English and Frenc's Ships bound to the South-Seas to victual and refresh, and especially to lay in Stores for so long a Run; as particularly the two Bristol Cruizers (the Duke and Dutchess) did, of whom hereafter, and as Captain Dampier and others had formerly done, and of late the French Traders to the South-Seas do the like.

When you make this part of the Coast, coming the ordinary Course from the Coast of Africa, you generally find Cape Frio bears W. or W. by S. and that you make the Hills above the Cape at 8 or 9 Ls dist. if clear Weather; then standing away W.S.W. and leaving the Cape on your Starboard side, you keep off in 40 to 50 Fa. where you have good Soundings quite in to the Shore: then slanting to the W. and W. by N. (for so the Shore trends) and passing the Rio Janeiro, you come with the N.E. end of the Island, called Isla Grande, where you may bring too, and anchor in 11 Fa. in the Entrance of the Harbour.

The Harbour goes in W. by S. after you are thro' the first Opening. There is a remarkable white Rock on your Larboard side, as you go into the Bay; and it bears S.E. as you go in, dist. about a mile and half. The Entrance lies above 5 Ls in the Bay; the Place where the Ships ride, is on the W. side of the Island, between that and the Main; and there are several good Coves, where Ships tow in to lie easy, and where they have the best Convenience both to wood and water.

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Sanctos, and also farther up at the N.E. end of the Island before the Town of St. Vincent. There are abundance of small Rivers come into this Gulph or Bay, and all the Ports well descuded with Forts. On the W. side of the Island goes in the other Channel 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 several good Harbours for small Ships.

W. by S. from this Port lies another Rio Grande, distant about 10 Ls: at the N. E. Point of it lies a small Town called Nostra Seniora de Canaillao, but this is not a Port of great business. From this River the Land draws round again towards the S. in a large Bay, but not deep m. till the Coast lies due N. and S. to the Ilha de St. Catherina. There are some small Rivers and Bays between; but as the trading part of the Coast of Brasils is now almost over, the greatest Navigation of this part is for Provisions or for Hides, especially for shelter for Ships bound farther S. and this is the reason of the Island of St. Catherines being often visited by European Ships, viz. for fresh Water and Provisions. The Island allords very good anchoring in several Parts of it, especially on the Coast next the Main, as does also the Island Alvoredo, which lies 3 Ls to the S. of it.

The Island St. Catherines or Ilha de Catherina, lies in Lat. 27 d. 52 m. to 28 d. 20m. The Island of Gal, or Gale, bears N.E. by E. from it, dist. about 3 Ls, and in a Line with the two most northerly Points of St. Catherine, and with the N. by E.

Point of the main Land of Brasil.

The Road or Anchoring-place is on the infide of the Island, between the Island and the Main, where you have a fafe Shore, good Ground, and what Depth of Water you please; but the best Place for Provisions is at the S.W. end of the Island, where there are great Numbers of black Cattle kept on purpose for the Supply of Ships which use the Coast, and is the chief Trade of the Place.

There is a narrow Streight between the middle of the Island and the Main, where the Channel is not above 200 Fa. wide, and not above 2 ½ Fa. Water in it; nor when you are thro', is there a Depth sufficient for a great Ship; so the Ships of Burden go about the S. part of the Island into the Bay of Arazzatiba, where there is an excellent Road well secur'd.

However, that Road is out of the way, it being not easy to go in and out: and Ships bound to the southward chuse to ride at the N. end of the Island, and send their Shallops and Boats thro' the inner Streight, to purchase Provisions. The Tides here run sharp, but very irregular, and seldom rise above

5 or 6 Foot upon the Flood.

From the Island of St. Catherine the Landtrends away S.W. to the Porto de St. Pedro, and thence to the Cape St. Maria, which ends the long extended Coast of Brasil upon the side of the Ocean, and makes the N. Point of the Entrance, or great Opening of the Rio de la Plata. Cape St. Maria lies in Lat.

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Sailing Directions for the East

34 d. 45 m. S. and Cape St. Anthonio, which is the opposite Cape, lies in Lat. 35 d. 50 m. fo that the Mouth of the River is above 23 Ls wide, not 60, as some Writers have affirmed.

The Coast of Brasil from St. Catherine hither has very little to describe, being a wild Country, like the N. Coast; nor have we any exact Survey of it, other than to let us know in general that great part of the Coast is defart and unplanted, at least by Europeans. The Islands of the Castillios finish the

Sailing Directions for the Coast of South A M sive to the Streights of Magellan exclusive, a de la Mare, and about Cape Horne on the I of Magellan in the South-Seas.



HE Portuguese being wholly Masters of the Country and Coast of Brasils to Cabo St. Maria in the Mouth of the Rio de la Plata, they are confequently Masters of the N. Shore of the River also, far

up the Channel; and as the Spaniards have the Port and Harbour of Buenos Ayres on the S. side, near 70 Ls within the River, so the Portuguese are Masters of the Rio St. Juan, or St. John, 10 Ls higher up the Stream on the other Shore, and of all the Creeks, Harbours, Ports and Rivers on the Shore, between that part and the Cape St. Mary's E. 'Tis almost 30 Is N.W. from this River of St. John to the parting of the main Rivers, where the great Rivers Parana and Paraguay fall into the Channel; and where, tho 100 Ls from the Sea, yet the breadth of the River is at least 10 Ls over.

Upon all this Coast the Portuguese have a considerable Commerce; but as that is not our business here, we shall speak only to the Shipping and the Navigation. The Channel of the River being fo exceeding broad, and the Current rapid to fuch a degree, as that the fresh Water is taken up far out to Sea, it cannot be expected it should be extraordinary deep, much less free from Sands and Shoals, especially in its Entrance into the Sea: But that it should be entirely barr'd over from Shore to Shore with a Sand, on which there is but 2 ½ Fa. Water, is fomething wonderful, especially seeing several Draughts and Charts publish'd in other Languages take no notice of it; but as the Dutch Charts expresly say so, we shall leave it as we find it; some saying it is able to carry great Ships 200 Ls up the Channel, and others just the contrary. Under the N. Shore, and for 10 to 12 Ls off into the Channel of the River, they have from 10 to 25 Fa. as high as the Baxos de Ingros, which 18 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 stretching out 15 Ls in length: yet I fay, 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 greatest Depth they give an Account of is from 5 to 3 Fa. But as in certain Scasons the quantity of Water from the Mountains, especially in the Rio Pach is the opposite outh of the River is have affirmed. hither has very litthe N. Coast; nor to let us know in and unplanted, at Lastillios finish the

Coast, lying out to the northward of Cape St. Maria, where there is good Riding, especially within the most northerly Island of them. But there is little to be had but Anchorage; for the Country is mountainous, and the Shore soul. Under the Cape, a little to the westward of the Pitch of the Shore, is a very good Road for northerly and westerly Winds, in 10 to 12 Fa. opposite to the Isla Dos Lobos, which is the first Island within the Rio de la Plata.

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given some Account of the Port: But all allow, that from the Rio de la Plata thither there is nothing worth notice, no Bufiness for Shipping, or Succour or Relief for Men, except Fish, fresh Water, Seals, Penguins, and such like.

It is true, there are other Harbours on this Coast before Port St. Julian, as Cape Blanco, which was the first Land that Sir John Narbrough made of America in his whole Voyage, having not seen the Coast of the Brasils at all; it lies in Lat. 47 d. 14 m. by Account, not by Observation. S. of Cape Blanco lie the several Anchoring-places of Port Desire, Seals Bay, Spirings Bay, and others, in all which the Admiral found both Provisions and Shelter; but his Provisions were only Seals, Penguins and Fish, very little fresh Water, and nothing on Shore.

N. B. The Flood fets along this Coast very strong to the northward.

Also there is Tomahauke Island, named so by Sir John Narbrough only, lying 8 Ls N.E. from Seals Bay: To take them in order; Spirings Bay lies to the N.W. you have 21 Fa. in this Bay, being 2 Ls wide, and about 3 Ls deep; it goes in rounding with a Point towards the N.N.W. upon which rounding Point are several high black Rocks, which make at Sea like a ragged building with a Tower on it. The Shore coming from the northward snews steep, with black Rocks, a low Strand, and some Bays, with Pebble Stones and a sandy Beach, Grass upon the Hills, but no Wood or fresh Water to be got on all that part of the Coast.

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 lie the rocky Islands mention'd above, the nearest about Musket-shot from the Main, the rest farther out; they are six in all; the outermost is the largest, a mile from the Main, and is called Penguin Island; it lies N.N.E. and S.S.W. about if 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, but abounds with Penguins and Seals, which last lie spread upon the Sands, about the sides and upon the tops of the highest Rocks. Many Rocks and soul Grounds lie among those Islands; you

a degree, as that the fresh Water is taken up far out to Sea, it cannot be expected it should be extraordinary deep, much less free from Sands and Shoals, especially in its Entrance into the Sea: But that it should be entirely barr'd over from Shore to Shore with a Sand, on which there is but 2 2 Fa. Water, is something wonderful, especially seeing several Draughts and Charts publish'd in other Languages take no notice of it; but as the Dutch Charts expresly say so, we shall leave it as we find it; fome faying it is able to carry great Ships 200 Ls up the Channel, and others just the contrary. Under the N. Shore, and for 10 to 12 Ls off into the Channel of the River, they have from 10 to 25 Fa. as high as the Baxos de Ingros, which 1s 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 stretching out 15 Ls in length: yet I say, 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 greatest Depth they give an Account of is from 5 to 3 Fa. But as in certain Seasons the quantity of Water from the Mountains, especially in the Rio Paraguay which comes from the Lakes near the Line, being very great, we may suppose the Depths of Water are increased, as we see usually in other Rivers which come from the same Latitudes; and by that Account the differing Relations may be reconciled, viz. that that River is deep or shoal, as the Seasons alter the Channel.

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 Dutch Charts, there is but 2 ½ Fa. Water, nor is it deeper by the same Charts in the Harbour of

Buenos Ayres it felf.

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 business for Ships to come there: What may be done for the future upon the English being allowed a Trade in that River, is not to the pre-

ient purpole.

In like manner, from Cape St. Anthonio fouthward for many Leagues, nothing can be faid in particular, but what is gathered from the Accounts of those Navigators, who have called here in their Voyages to the South Sea, fuch as Magellan, Le Mare, Drake, Sir John Narbrough, and others; it may be properly called a Costa Deserta, as it is by the Spaniards, there being no Inhabitants settled in any particular Place for a great many Ls, viz, from Lat. 26 \frac{1}{2} to 47 or 49 d.

The first Place of note we find mention'd, is Port St. 711lian, where feveral European Ships have winter'd, especially while the passing thro' the Fretum Magellanicum was in use: among others we find Ferdinand Magellanicus stopt hereabouts in his first Discovery of the Streight it self, Anno 1519. after him Sir Francis Drake, and Sir John Narbrough, who have far out to Sca, it deep, much lefs Entrance into the over from Shore ut 2 1 Fa. Water, eral Draughts and notice of it; but all leave it as we t Ships 200 Ls up nder the N. Shore, f the River, they de Ingros, which

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Many Rocks and foul Grounds lie among those Islands; you must therefore keep off about 2 Ls to Sea, and send 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 stand off and on, or go to the northward to PortDesire.

Port Desire lies to the northward of these Islands, and N.N.W. from this *Penguin* Island in particular, dist. about 3 Ls, in a Bay of 4 Ls broad and 1 † deep.

About the middle of this Bay lie several white Cliss 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 these Marks the Coast is to be known. On the S. side of the Bay there is a fandy Cove, very convenient to hale a Boat on Shore in foul Weather; and over it a Range of craggy broken Rocks, which look like a Wall.

Here Sir John founded the Harbour, and found it deep enough for great Ships at low Water; but nothing on Shore, all waste, and neither Wood nor Water as before. This I take to be the same which he calls Coopers Bay, and the Harbour in it PortDesirc. In this Harbour Jacob Le Mare and his Company in the Ship Horne put in and staid near fix Weeks to refresh. And here he fet up a Post with an Inscription, which Sir John found and brought away, giving an Account of their Names and Ship's Name, and the Date, viz. the 10th of January The Spot of Land where it stood he called Le Mare's Island, for it was at a small dist. from the Main.

N. B. Port Desire lies in Lat. 47 d. 48 m. S. in Longit, from the Lizard W. 61 d. 56 m. and in Meridian diff. from the Lizard W. 1014 Ls 1. the Variation of the Compass 17 d. 10 m. easterly.

N. B. Scals Bay lies in Lat. 48 d. 10 m. the Land is called the Coast of Patagonia. The Coast from hence towards Port St. Julian 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 those Islands and Ports lies another small nameless Island 1 L from the Shore; the Land is flat and low, it lies in Lat. 48 d. 40 m. the Main against it is mountainous, and the Hills very large and spreading as well as high with pointed copling Tops, the Land low and spreading into a great Plain; and a Beach lies all along the Shore, except just against the Island, where it is rocky and foul.

In an Offing of 2 Ls from this low Island you will have 23 Fa. all black Sand; but you may fail within 5 miles of the Main in 18 to 20 Fa. in which case you go close under the Shore

of the Island.

All along from hence to *Port St. Julian* you have the fame depth and the fame Ground, and the Shore a kind of Bay, with a long Beach; which, with here and there a Rock on it, holds for 4 Ls together, being a L to the fouthward of this flat Island, the Shore lying still S.S.W. and N.N.E. At the southermost end of the long Beach the Land within rifes in high round Hills; and at the Sea side there is a large white Cliss indifferent high, stretching almost to *Port St. Julian*.

Over the white Cliff the Land rounds up to the top of the Hills, and you will fee under it upon the Cliff a long black Strake in the white, like a Vein of Flints in a Chalk Rock; by all which Marks you will certainly know the Place. The Hills may have some small black Bushes upon their sides, but none on the top; nor is there any Wood or Trees to be seen.

In this Bay lies the Port St. Julian; the going in lies W. in the middle of the Bay; yet you cannot fee it in the Offing, because one Point shuts in the other, shooting out E.S.E. the Harbour going in W.S.W. you must therefore send in your Boat to discover the Harbour, and to found the Bar, which should be done at low Water, and not omitted, less the Bar should shift and alter between the former Soundings and the time you come there.

The Land behind the Harbour lies in high rifing Hills, standing thick together like blunt Sugar-Loaves, being the highest Land to be seen on all the Coast. In the Bay you have 12 Fa. black ouzy Sand, opposite to the Harbour, dist. E.N.E. 2 Ls.

N. B. The Tides flow and ebb here 3 Fa. right up and down. This Port is dist. from the flat Island near 9 Ls, the Course as before S.S.W. N. B. The Entrance into the Harbour lies in Lat. 49 d. 10 m. Longit. from the Lizard 63 d. 10 m. Meridian dist. from the Lizard 1030 Ls; Variation of the Compass 16 d. 10 m. East.

The Harbour is fafe, and Ships ride fecur'd from all Winds: also the Points reaching out before one another, keep off the Swell of the Sea, be it ever so rough in the Offing.

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It is a good Harbour for wintering, were it not for want of Fuel and fresh Water, wet both may be had with some difficulty.

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irections for the Streights of Magellan.

Abundance of Fish, Fowl, and Scals, for Provision are every where to be found, but nothing on Shore for Sustenance but Salt, of which Sir *John* says there was enough to load a thou-fand Ships, very white and good.

N. B. Stars near the S. Pole are very visible here, and useful to Sailors, the none sit for Observation nearer the Pole than 18 d. And in particular no Pole-Star, as the Star in the Tail of the Vrsa 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 Coast indeed is sair, and there is a River opens into the Sea called the Galegos, in Lat. 52 d. 5 m. and a long Shoal, with several other Shoals without it, reaching from Lat. 51 d. 30 m. to the Mouth of the River Galegos, and lying 5 Ls E. and W. from the Shore. There is good anchoring without these Shoals in 12 to 25 Fa. pretty near to them; but the best of the Course is to keep 3 to 4 Ls without them, till you come to 52 d. 20 m. Lat. then stand in again to the usual Ossing of 3 Ls, where you will have from 28 to 30 Fa. and a clean Coast all the way to Ca. Virgin Mary, as Sir John Narbro' calls it, or Cape 11000 Virgins, as the Spaniards call it, which is the N. Point of the Entrance into the Streights of Magellan.

Before you make the Streight, you pass by St. Ives, which is a high Hill on the Main, and a Point which they called Beachy-head, Lat. 50 d. 10 m. the Variation 16 d. 37 m. casterly. Here in a little Bay comes in the River Santa Cruz. Then you pass Fair Weather Cape; and here the River Galegos mention'd above comes in. Then you come to the Cape Eleven Thonfand Virgins, as above, Lat. 52 d. 26 m. the Mid-Channel or the Fair Way into the Streight is 14 Ls off the Point, in Lat. 52 d. \frac{1}{4} S.

It has been observed in our Description of this Streight called the Fretum Magellanicum, that as it was never likely to be in use again, (the Passage about by Cape Horne, which was much eafier, being now discover'd) it was therefore needless to describe it; and we might let it drop out of our Memory as if it had never been in our Knowledge. But it may be also obferv'd here, that the Seas are so tempessuous in the E. and W. side of the Terra del Fuego, and especially those to the S. of Cape Horne, where our People now run away into the Lat. of 60 to 63 d. S. and that in particular there come fuch violent Waves from the S. and S.W. that the best and strongest Ships are in danger of foundering, and that if they escape, yet the Men are so fatigued with the Labour and Warching, and particularly with the Cold which is extremely piercing, that the Europeans begin to think again of the Streights of Magellan, and many of the French Ships trading to the South-Seas, in the late

For this reason I think it should not be omitted to give a summary Account of the Streight, as it has been surveyed at the publick Expense by the faul Admiral Sir Take Ambreval.

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It is a good Harbour for wintering, were it not for want of Fuel and freshWater, yet both may be had with some difficulty. Sir John Narbrough lay here all the Winter; moored, and unrigg'd his Ship; and tho a very stormy Winter at Sea, felt nothing to hurt them, or to put the Ship into any great Motion: Depth of Water 7 to 10 Fa.



Sailing Directions for the Streights of Magel Journal, Octobe

Being come into the Latit. of Cape Virgin Mary, I flood off about 4 Ls; and having 28 Fa. Water, and the · Wind springing up fresh at N.E. I stood in for the Point, pas-· fing to the northward of two Banks of Sand which lie due · S.E. from the Cape; fo running in between those Banks and the Port 2 Ls from the last, having 33 to 36 Fa. in the Fair

N. B. The Cape is in Lat. as above, Longit. from the Lizard 65 d. 52 m. Merid dist. from the Lizard 1662 Ls, Va-

riation of the Compass 17 d.

'In the Fair Way from the Cape into the Streight to the first Narrow, is good anchoring in 30 to 36 Fa. not much Tide,

· till you come to the Narrow, where it runs stronger than the

· Thames does in the Hope below Gravefend.

N. B. The Tide runs here 6 hours Flood and 6 hours Ebb, and rifes 4 Fa. right up and down: The Flood fets in, and the Lbb fets out, and the Full and Change make high Water at 11 a-Clock.

'This Day at 2 a-Clock I was a-breast of Point Possession, · when finding a deep Bay on the N. fide, and not knowing the

· Fair Way for the Narrow, I run into the Bight, steering

' W.N.W. about 2 Lesthen W. and W.S.W. and S.W. by S. roun-

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of the French Ships trading to the South-Seas, in the late
time of Friendship between France and Spain, chose to go
that way, and generally had a quicker Passage; and that some
English do so still.

For this reason I think it should not be omitted to give a summary Account of the Streight, as it has been surveyed at the publick Expence by the said Admiral Sir John Narbrough, by order of K. Charles II. which Survey has been published under his own hand, being an Abridgment of the Journal of his passing thro' the Streight both forward and backward, Ann. 1669. as follows.

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ghts of Magellan, exstracted from Sir John Narbro's urnal, October 23, 1670.

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nd 6 hours Ebb, nod fets in, and make high Wa-

Point Possession, not knowing the e Bight, steering S.W. by S. roun-

- ' ding the Bay as I saw the Land lie, keeping my Eye upon the ' N. Shore.
- ' As I shoal'd my Soundings, I had 22, 18, 16, 12 to 9 Fa. fandy gravelly Ground, and some times Pebble Stones. I rounded the Shore thus because we were all unacquainted,
- ' and we could not fee the Opening of the Narrow, or where
- it lay, one Land shutting it in within another.
- About 5 a Clock we were open with the Narrow, and and had still a fine Gale at N.N.E. which had it held would have been a leading Gale thro. Accordingly I run into the Chops of it, keeping a S.W. by S. Course; but the Ebb being made, run so strong out, that I could not stem it; and being
- on not able to make above a L into the Passage, I was forc'd to fall back again out of it as well as I could.
- ' Here we were in great danger of tailing ashore upon some feep Rocks, which lie on the N. side of the Entrance; the
- Ship taking a Sheer with the Force of the Tide, and the
- Wind blowing fresh from the N.E. We saw the Rocks by the long Rock-weed which grew on them, and sent the Boat
- to found them, who found but 5 Foot Water upon them,
- the there was 14 Fa. close to them on the off side next the
- Channel or Fair Way: they lie stretching from the N. Point

Sailing Directions for the Streights

of the Narrow about a mile off into the Channel, and are ' very dangerous.

' Having escaped 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 Passage, I stood in for the Bay on the N. side, where we had been before: but being fo very dark that we could

' not see the Land, and finding 20 Fa. Water, Pebble Stones and ' ouzy Ground, we anchored and rode there all Night, at first

stark calm, 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 First Narrow the second time; and having the Tide under Foot, passed it happily eonough, and with little Difficulty, the Passage being not above 4 Ls thro': the northermost Point of the Passage under the N.E. part of which we had anchor'd all Night, and where it first grows narrow, we called Cape Entrance, the • Passage about 1 L over, from 27 to 30 Fa. all the way fro'.

' It is fomething above 8 Ls from the first Narrow to the 6 fecond, the Course W. by S. and E. by N. the Reach between is 7 Ls broad N. and S. it shows like the open Sea, when we enter it, being not able to see over it to the Second Narrow, till we were half over: Nor did we well know where to look ' for it, but by observing the Set of the Tide, which seemed

to run right over W. Being enter'd this open Reach, between the two Narrows. ' it is to be observ'd, you have at least 25 Fa. all the way in a ftrait Course W. But if you have a mind to round the Bay, ' as we did the other, and was done afterwards at our Return by the Pinnace, you will find from 7 to 8 Fa. close under the ' Shore; all the way, a clear Strand and good anchoring under the N.W. Land, in a small Bay, which we called Gregory's Bay, about 2 mile N.E. from Cape Gregory: There you may 4 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 the N.E. westward to the S.W.

N. B. The Winds here are very variable, but generally hang westerly. As we failed thro' the Second Narrow from Cape Gregory, I founded in the Fair Way, and had 28 to 30 Fa. all the way, the Ground small Stones.

At the Point of the N. Shore, at the Entrance of the Se-6 cond Narrow, there lies a white Cliff indifferent high, shoot-This we named Cape St. Gregory; it is ing a little out S.E.

without the Bay mentioned above, a little to the S. by E. or

' There is also a Bay a little within this Point, in the Passage of the Second Narrow on the N. Shore; but to that we gave no Name. The Second Narrow is broader than the first, and the Passage not so long; so it is the less disficult.

• 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

· This Narrow lies thro' W.S.W. and E.N.E. at the W. end of it the Land is steep up in white Cliss, the S. part of it rounds away in a Foreland; and the Shore rounds dry on pos'd b

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the W. S. part rounds dry on the Ground, the Trees blow'd down as they suppos'd by the Storms.

On this Account we call'd this Fresh-water Bay; it is Ls to the southward of Sweepstakes Foreland: And from Elizabeth Island to this Bay the grand Channel of the Streights turns away due S. holding generally the breadth of 6 to 8 Ls; but at Elizabeth Island it is 10 to 12 Ls wide. The S. Shore of the Second Narrow we call'd Sweepstakes Bay, and the W. Point of the Bay on the S. Shore of it is

call'd Sweepstakes Foreland. Opposite to this Foreland NW is a small round Inlet, or Gulph, call'd Ouzy Harbour, as above. From the Bay, beyond that to the Foreland, the

Streight is 13 Ls broad.

From Fresh-water Bay due S. lies Port Famine, call'd so, because it seems some Spaniards formerly landed and settled, and were starved to death here, no Relief from Europe being sent to them. The distance from Fresh-water Bey histories 6 Ls due N. and S. You cannot see the Opening into the Port as you come from the northward, till you come so low as to bring Point St. Ann to bear N.W. from you: For the Bay lying up in a little Hook N.W. and the Land on the W. side lying low, the other Shore conceals the Port. Here we found Heaps of drift Wood lying on Shore, cast up by

the Winter Floods, so that it look'd like a Carpenter's Yard.
This Point of St. Ann is rocky on the Shore, but you may run into the Port bold with the Point. Here is likewile good wooding, watering and fishing. The Men haul'd 500 large Mullets, or Fish as large and good as a Mullet, on Shore at one Haul; also Smelts of 20 Inches long, with Anchovy

and Skate.

N. B. Port Famine lies in Lat. 53 d. 35 m.

S. from Cape Famine the Reach goes on still S. about 4 Ls farther, and then turns away to the westward, the 5 Streight also or Channel growing narrower to about 5 Ls. Just at the Turning off of the Channel to the W. the N. fide necessarily makes a Point, which running out to the S.E. we call'd Cape Froward. This is the southermost Land of the main Continent of America, and lies from 6 Greenland, and the height of the N. Pole, due S. or S.W.

the greatest Continuity of Land in the known World.
It is very high Land, especially on the inside of the Cape:
The Front is steep up, consisting of a high Ridge of Cliss of the blackist result Colours. There is a great death of World.

a blackish-grey Colour. There is a great depth of Water near the Shore off of the Cape, in some places no Ground at 150 Fa. within half a Mile of the Shore. The opposite

Shore is high and very mountainous, but has more inhabitants than on the N. fide; yet the Shore is not fo fafe as the

'N. fide: And the other being a Lee-shore, with westerly Winds, and those frequently blowing here, it is worse riding there, and more dangerous.

'The Streight here is is not above 3 Ls over, but exceeding deep, no Ground at 250 Fa. in this Channel; and the depth being so great, there is but little Tide, nor any Rippling to be perceived, but a fair Course throw an open clear to Channel anothing wanting but a fault Cole shall the Math

Channel; nothing wanting but a fresh Gale abase the Mast.
 It is still best for any Ship to keep nearest the N. Shore, for

the N.E. westward to the S.W.

N. B. The Winds here are very variable, but generally hang westerly. As we failed thro' the Second Narrow from Cape Gregory, I founded in the Fair Way, and had 28 to 30 Fa. all the way, the Ground small Stones.

At the Point of the N. Shore, at the Entrance of the Second Narrow, there lies a white Cliff indifferent high, shooting 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

5.S.E.

'There is also a Bay a little within this Point, in the Passage of the Second Narrow on the N. Shore; but to that we gave no Name. The Second Narrow is broader than the first, and the Passage not so long; so it is the less 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 lies thro' W.S.W. and E.N.E. at the W. end of it the Land is steep up in white Cliss, the S. part of it rounds away in a Foreland; 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 goes in a Harbour, which has 4 Fa. in the Channel at high Water: It is a flat round Harbour within, ' and ouzy: I called this Ouzy Harbour. When you are at the W. end of this Narrow you will see three Islands come open, which shew to be steep up Cliss; they lie triangularwise one of another; they are 4 Ls dist. from the Narrows W.S.W. the smallest and eastermost Isle we called St. Bartho-' lomew's; the biggest is called Elizabeth; the middlemost ' and fouthermost is called St. George's, and by some Penguin's Isle, for indeed there are many Penguins on it. This Evening I got up to Elizabeth's Island and anchor'd in 8 Fa. ' and a half, fine black Sand, two miles off the Island; 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 ' Island, we founded the Channel between that and the next Island bearing S. of it, which we call'd St. Bartholomew's, and found it a fair Channel, deep Water, and a Mile broad. 'In the Fair Way is 38 Fa. and 9 to 10 Fa. near the Shore on either side of Elizabeth Island.

* October 30. We weigh'd from Elizabeth's Island, and flanding away S. anchored in a little Bay in 11 Fa. gravelly Ground, and about half a Mile off the Shore, the Tide not fo strong as before; and the Flood rises but 10 Foot up and down. In this Bay we found both Wood and Water, here being large Trees of 18 Inches thro', somewhat like Beech,

and two Rivulets of fresh Water; both which, especially the Wood, had been very scarce with us for a long while.

N B. The Woods being thick, they could not travel thro' them; but they found Wood enough lying periffing and

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· fide necessarily makes a Point, which running out to the ' S.E. we call'd Cape Froward. This is the fouthermost Land of the main Continent of America, and lies from Greenland, and the height of the N. Pole, due S. or S.W.

the greatest Continuity of Land in the known World. ' It is very high Land, especially on the infide of the Cape: 6 The Front is steep up, consisting of a high Ridge of Cliffs of a blackish-grey Colour. There is a great depth of Water near the Shore off of the Cape, in some places no Ground at 150 Fa. within half a Mile of the Shore. The opposite Shore is high and very mountainous, but has more luhabitants than on the N. fide; yet the Shore is not fo fafe as the N. fide: And the other being a Lee-shore, with westerly

Winds, and those frequently blowing here, it is worse 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 so great, there is but little Tide, nor any Rippling to be perceiv'd, but a fair Course thro' an open clear Channel; nothing wanting but a fresh Gale abase the Mast. It is still best for any Ship to keep nearest the N. Shore, for the fame Reason as before, because the Winds hanging gene-' rally in the western Quarter, the N. Coast is more a Weather Shore than the S. Coast.

N. B. Cape Froward lies in Lat. 53 d. 52 m. S.

' On the 4th of November, the Wind springing up fresh at W.N.W. and the Reach from Cape Froward lying due W. we were oblig'd to put in towards the N. Coast, 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 John Narbrough's Chief Mate, and very instrumental in giving this full Account of the Voyage.

' Nov. 5. we weigh'd again, and came a-breast of Cape Holland. These are all Points of Land on the N. Shore of this Reach, as is also Cape Coventry, Andrews, Cordes, and Fortescue's Bay, Cape Gallant, and Port Gallant: All these lie on the N. Shore, and there is very good anchoring in most of them, tho there are some Rocks under Shore upon most of the N. Coast from Wood's Bay to Cape Gallant.

Opposite to this Coast lie many Islands, rather inclining to the S. Shore, but a breast of Cordes Bay, and distance 2 Ls: These are, Charles Island, Monmouth Island, Rupert's Island, St. George's Island, Arlington's Island, Sandwich I-

fland, Wren's Island, with abundance of nameless Rocks, which we did not think worth notice. Most of these lie

E. and W. stretching from the S. Shore opposite to Cape · Coventry, and then croffing a deep Bay call'd Whale Bay 6 (because of a great many Whales we saw in the Bay) go off

at Whale Point. · This Whale Point is a Foreland on the S. Shore, where the Shore runs out N. into the great Channel: And this · Passage makes the Third Narrow of the Streight.

N. B.

N. B. This is thought to be the most difficult part of the Streight, by reason of the breadth of the Channel and Depth of the Water, and especially the Number of Rocks.

The Passage of this Narrow is about 2 Ls wide. The E. Point on the S. Shore is Whale Point, and the W. Point on the same Shore is call'd Cape Middleton; and the Reach be-

• fore it we call'd English Reach, because of so many English.
• Names given to the Islands and Shores.

'The Streight shews here as if it was a mere Gulph, and that there was no farther Passage to the westward: For the S. Land rounds up so much to the N. westward, that it seems to shut up the Land into one even Strand. At this distance we saw two large Openings into the S. Land, one opposite to Charles Island, the other farther W. There we saw many

Whales playing in the Sea, and therefore call'd it Whales Bay. N. B. It was a great Mistake not to go in here.

But to come back to the N. Shore from the Pitch of Cape
Froward, the Channel of the Streight lies nearest W by N.
to Cape Holland dist as above full 5 Ls. From the Pitch of
Cape Holland to the Pitch of Cape Gallant it lies W, by N.
a little northerly, dist. 8 Ls; and from the Pitch of Cape
Gallant to a low Point which lies to the westward, it is
N.W. by W, a little northerly, dist. 3 Ls.

'This Reach is not more than 2 Miles wide, that is, from the N. Shore to the Islands, which we call'd, as all together, the Royal Isles. When we were a-breast of the westermost of them, which is Rupert's Island, and failing Mid Channel, we shot off a Sakre, and lodg'd the Shot close in the Island's side.

Opposite to Rupert's Island on the N. Shore lies a low Point or Cape, which we call'd Point Passage. We shot pass this Point half a Mile to the westward into the Narrow, having a fine easy Gale; but the Wind coming westerly, with cloudy Gusts sometimes at N.W. we run into a little Bay to the westward of the Point, which we call'd Elizabeth's Bay. Here we rode sast all the Day close aboard the Shore, the

Wind blowing hard.
The S. Shore right against Elizabeth's Bay is mountainous
and high, with several fine Coves like wet Docks, very safe.

and high, with several fine Coves like wet Docks, very safe to run a Ship in, to secure it from Windor Sea. This Bay we call'd Muscle Bay; and a River which comes into it we call'd St. Jerom's River. The Shore is rocky and steep too, no Ground in the Channel of the Narrow at 100 Fa. also in most of the Bays on the S. Shore there is very deep Water, especially among the Islands, which lie very thick and close

' From Elizabeth Bay westward, the Land of the N. Shore next the Sea side is low and woody: A small River comes into the Bay on the N. Shore, which we call'd Batchelours.

River, where is good fresh Water, and instingues don't in the

along the Shore.

River, where is good fresh Water, and sufficient depth in the Entrance for Shallops and small Vessels, but how far in we

knew not. Before the Mouth of this River, in the Streight, is good anchoring in 9 to 12 Fa. fandy Ground, and a fair Birth from the Shore. The Tide runs here but ordinary for

frength, the Flood coming from the westward, and rising

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this seems to be the most dangerous part of the whole Sreights as wanting both Harbour under Shore, and Anchoring in the Offing. I mean to the castward of this Cape Quad.

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, but it promifes fair, being large and well-shelter'd from any Winds. What depth there is we know not, but in the Channel before it we had no Ground at 100 Fa. From Point Passage

onel before it we had no Ground at 100 Fa. FromPoint Paffage to this Cape is also the most crooked part of all the Streight, which adds to the difficulty of the Passage, because it requires fo many Winds to get thro' it: We call'd it Crooked Reach. A little to the eastward of Cape Quad he two small Islands,

but of no importance to the Navigation.

W.N.W. from Cape Quad, the Streight lying to the N.W. lies Cape Monday, being on the S. Shore of the Passage, and dist. from Cape Quad 13 Ls. Opposite to this Cape the Sreight is contracted to about 4 Miles breadth. The N. Shore is full of deep Sounds, broken Islands, and large Points shooting far into the Sea, both Shores are rocky, high, mountainous, unhospitable Countries, neither Wood or Grafs.

' From Cape Monday the Shores fall off on both fides; and the Streight in general grows wider and wider, keeping one due Courle N.W. by W. to Cape "Opright, a fleep high Chiff" on the S. Shore, with from Case Many we show.

on the S. Shore, diff. from Cape Monday about 4 Ls.

'Here the Channel inclines half a Point to the westward, and you have no more Turnings or Reaches in it; but it lies open W.N.W. half a Point northerly right out into the South-Sea.

'We found little or no Tide or Current here; that is to fay it could not be felt because of the great depth of Water: For here, tho the Channel grows broad to 6, 7 and 8 Ls, yet we had no Ground at 200 Fa. a Musket-shor from the Shore on either side. We sail'd fair along the S Shore a whole Day; we could see many Sounds and Coves run deep into the Land, also several small Islands, but no visible danger; for all the Islands that we came near enough to sound are steep too, so that the Streight is here a very sair

Channel to fail thro', or (as the Spaniards call it) to difembogue into the Southern Ocean.

We saw likewise on the N. Shore several Sounds going into the Land, and many small Islands; but one Island we were a-breast of larger than the rest, which we call'd Westminster Island; and there are some Rocks, and much broken Ground about it, and several Islands also; which Islands we call'd the Lawyers. Westminster Island is high and rocky, and makes at a distance like Westminster-ball, and therefore we call'd it Westminster Island.

'Here the Streight is open'd to 5 Ls, that is, from the Island to the S. Shore: But the Island is also at some distance from the N. Shore, and has many Rocks and Islands between,

fo the whole Streight may be here near 7 Ls broad.

And now we began to see our way out, for the Streight grew wider and wider, and seem'd to promise us that we should find no more narrow Passages.

Wind blowing hard. . The S. Shore right against Elizabeth's Bay is mountainous and high, with feveral fine Coves like wet Docks, very fafe to run a Ship in, to secure it from Wind or Sea. This Bay we call'd Muscle Bay; and a River which comes into it we call'd St. Terom's River. The Shore is rocky and steep too. one Ground in the Channel of the Narrow at 100 Fa. also in most of the Bays on the S. Shore there is very deep Water. especially among the Islands, which lie very thick and close along the Shore. From Elizabeth Bay westward, 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 Batchelows River, where is good fresh Water, and sufficient depth in the · Entrance for Shallops and fmall Veffels, but how far in we Before the Mouth of this River, in the Streight, knew not. s 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 coming from the westward, and rising

· not above a Foot. N. B. The Tide that comes out of St. Jerom's Channel 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 Tork Road; 'tis very good Riding with westerly Winds, for here cannot go any great Sea, nor can a Ship be embay'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 westerly Winds are the chief · Winds that blow in this Streight; for all the Trees on both Shores stand leaning to the E. as if they gave way to the westerly Storms; and the W. side of the Tops of the Trees are blown flat with the Violence of the continual westerly Storms.

There may be eafterly Winds too, and some 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 lies Cape Quad; the Land like the former Points · thut in one another, as if there was no farther Passage: But as you make nearer to it, you come fair with the Opening, the Streight also rounding there to the northward.

' Cape Quad is a steep-up Point on the N. Shore of the · Streight; it has a rocky greyish Aspect, and is of a moderate

height. Before you come at it it shews like a great Building, or an old Castle; it Points off with a Race so much from the other Hills, and into or towards the Channel of the Streight, ' that it makes a Close, and shuts 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 steep too on both sides, and the Channel deep; so that danger

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We faw likewise on the N. Shore several Sounds going into the Land, and many small Islands; but one Island we were abreast of larger than the rest, which we call'd Westminster

Island; and there are some Rocks, and much broken Ground about it, and several Islands also; which Islands we call'd the

Lawyers. Westminster Island is high and rocky, and makes at a distance like Westminster-hall, and therefore we call'd

it Westminster Island.

' Here the Streight is open'd to 5 Ls, that is, from the ' Island to the S. Shore: But the Island is also at some distance from the M. Shore, and has many Rocks and Islands between

from the N. Shore, and has many Rocks and Islands between,

of the whole Streight may be here near 7 Ls broad.

And now we began to fee our way out, for the Streight grew wider and wider, and feem'd to promife us that we

' should find no more narrow Passages.

From Cape Monday the Channel lies away W.N.W. half a Point northerly, and E.S.E. half a Point foutherly, to Cape Deffeado, dift from one another 15 Ls; which finishes the

Streight, and opens into the Ocean.

From Cape Quad into the South-Sea the Course of the Streight lies N.W. by W. and from Cape Quad to Cape

Desseado the dist. is 28 Ls: It lies all in one strait Line, which

therefore we call'd Long Reach, and the Land on the S. Shore we call'd South Defolation, in Opposition to the Coast

of Greenland, which Sir Martin Forbiffer for the same Rea-

fon of Wildness and Barrenness call'd North Defolation.
 Cape Deffeado lies in Lat. 53 d. 10 m.S. and Cape Pillar

' lies in 53 d. 5 m.

Thus we made the whole length of the Streights to be

1116 Ls from Cape Virgins to Cape Defleado, reckoning all the Turnings and Reaches: And thus we happily fail'd thro'

'it in 16 Days.'

Thus far Sir John Narbrough's Account, and also the Additions from Lieutenant Wood and others, corresponding with his Account: All which may serve for a sull Chart of the Streights themselves, in case any Persons should, either by Choice or Necessity be oblig'd to take this Passage for the South-Seas in time to come, which it seems is more probable than for many Years we thought it to be.

Sir John Narbrough did, and several other skilful Navigators since that, have come back by the same Streight from the South-Seas into Europe; and some Directions might be drawn from the Continuation of his Journal in his Return: But we think that what has been extracted from his Diary

outward-bound may be sufficient.

We must now go back, and with the modern Navigators look into what Authors have left upon Record for Directions in failing

Sailing Directions for the Streig

the other Courle, viz. by the Streights de la Maire, and the Terra del Fuego; a Courle, which tho it is not without its Dangers, has of late obtain'd in the World, and been esteem'd for some time the best and easiest, tho we cannot say it is the

fafest Pallage into the South-Sea.

We have three particular Journals of this Passage left in print by the Persons who have successfully pass'd it, and of three different Nations: And as they are all very important, being well describ'd, as they were skilfully personm'd, and are not tedious, we think it may be useful to give an Extract of them all, the thing it self being of so great importance in Navigation.

1. Jacob le Maire, a Dutch Man, who was the first that

ever made that Attempt, and perform'd it successfully.

2. Monf. Frezier, a French Man, and Engineer to the French King, whose Account was published in France by the King's Authority, and translated into English, with an Appendix or Postscript by Dr. Halley.

3. The two Captains Rogers and Cook. English Men, who took the Acapulco Ship; and each publish'd a Journal of their Voyage, and in that Account gave a particular Description of

this part round by Cape Horne.

Thus we have the Authority of the Navigators of three Na-

tions for the Passage.

N. B. Jacob le Maire set out with two Ships from the Texel the 14th of June 1615, and to omit the rest of the Voyage, as not to our purpose here, they arrived at Port Desire in Lat. 47 d. 40 m. S. on Dec. 7. the same Year, where they stand about five Weeks; but did not winter here, as Sir John Narborough did.

The 9th one of the Ships having been cast on Shore upon the Rocks, and almost miraculously escaping, they went into the Port, and up the River, to the Island mention'd by Sir John Narborough, call'd King's Island, in order to get Provisions and fresh Water: Of the first they found nothing but Eggs and Penguins; and for fresh Water, they

found none.

As for the rest of the Voyage, containing a Description of the Coast, and Directions for failing on it, I shall give it in their own Words.

Jan. 13. 1616. 'WE fail'd out of Port Desire; but being calm, we anchored before the Bay till the Evening, when with a fair Wind we set fail again to the fouthward.

'The 18th we faw Schald's Island's bearing S.E. from us, about 3 Is: We found them lying, as Schald de Wert who discovered them describes them with distance from the Streight

discover'd them, describes them, viz. distant from the Streight
 of Magellan about 5 Ls E.N.E. and W.S.W. When we got
 Sight of them, we were in Lat. 51 d. S.

N. B. These are supposed to be the same which we call Falkland's Isles, and Sibauld's Isles.

'The 20th we faw Steen-Grafs drive in the Sea (that is, what we call Rock Weed) and perceiv'd a great Current runining from the S.W. We were then in Lat. 53 d. and fupposed by our Reckoning we were about 20 Ls S. of the En-

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in our Opinion, because we found a strong Current in the Opening between, coming from the fouthward.

'About Noon we had an Observation, and sound we were under Lat. 54 d. 46 m. In the Asternoon the Wind coming 'N. we stood in fair with the Opening, resolved to see if it

went thro', or that we were embay'd: Being enter'd, it fell calm, when we found a ftrong Current of the Tide running right in, and that we drove forward all night at a great rate. In the Opening we faw endless Flights of Penguins, and

thousands of Whales; so that we were forced to wind and tack, and stand this way and that, to avoid them, lest our

Ship should run foul of them.

'The 25th in the Morning we were close in with the Educated of the Land, which we had been the Day before, which was very high and craggy, and reach'd E.S. E. as far as we could see: This we named Staten Land, or the States Land: towards night it lay from us N. to that we seem'd to be run past it S. But on the W. side the Land continued, and lay W. by S. from us, and this we named Maurice Land. We perceived good Bays and deep Sounds on both sides as we pass'd, with sine landy Strands, and as we had reason to believe good anchoring ground.

4 All this first part of our Entring we had the Wind at N. and went away S.S.W. with a stiff Course and a fresh Gale. At Noon we were in Lat. 55 d. 36 m. Whereupon we held our

Course as before S.W. having a hard Gale.

'Keeping this Course, we perceived the Land on the S. side of the Passage, being the W. end of Maurice's Land, trend of also, falling away W.S.W. and S.W. as far as we could make it from our Round-Tops, all very high craggy Land.

In the Evening we had the Wind S.W. and all that Night we flood S.S.E. having a great Sea out of the S.W. going very high, and the Water looking blue; whence we concluded we had a great Extent of Water, and very deep to the Leeward from us; nor did we doubt but it was the great South Ocean that was then before us, which made us exceeding joyful, believing we should discover the Way into it which

' was never heard of before, especially not this Way.

'The 26th we had another Observation, 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 Course southward, and saw very high Land to the N.W. In the Night we tack'd, and changing our Course

' stood to the N.W.

' The 27th, having run this Course all Might, we found
' 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 firetch we tack'd, and flood NW. again under our Courses.

'The 28th we carried our Top fails, but had a great hollow 'Sea out of the W. with first a W. Wind, then a N.E. and 'with that we held our Course S. as before, then W. and

then W. by S. being in Lat. 56 d. 48 m. To that for these several Days we made but little way southward, but gain'd upon our Longitude, by westing as above.

'The 29th we had the Wind at N.E. which was a great he'p

nothing our Eggs and Penguins, and for freih Water, they found none.

As for the rest of the Voyage, containing a Description of the Coast, and Directions for failing on it, I shall give it in their own Words

Jan. 13. 1616. ' E sail'd out of Port Desire; but being calm, we anchored before the Bay till the Evening, when with a fair Wind we set sail again

to the fouthward.

'The 18th we faw Schald's Islands bearing S.E. from us, about 3 Ls: We found them lying, as Schald de Wert who

discover'd them, describes them, viz. distant from the Streight
of Magellan about 5 Ls E.N.E. and W.S.W. When we got
Sight of them, we were in Lat. 51 d. S.

N. B. These are supposed to be the same which we call

Falkland's Isles, and Sibauid's Isles.

'The 20th we saw Steen-Grass drive in the Sea (that is, what we call Rock Wved) and perceiv'd a great Current runining from the S.W. We were then in Lat. 53 d. and supposed by our Reckoning we were about 20 Ls S. of the Entrance into the Streights of Magellan.

• The 21st we made no way S. being driven to the E. found by an Observation that we were still in Lat. 53 d. S.

'The 23d in the Morning we had the Wind at S. about Noon a Calm, (which we were rarely troubled with) to-

wards Night the Wind Iprung up at W. and we made fail
 flanding S.S. Z. We had Ground at 50 Fa. black Sand, with

' fmall Stones.

N. B. Sir John Narborough observes exactly the same at the same depth upon all the Coast.

' The same Day about three, the Wind came to the N. sair Weather and a smooth Sea; and we made fresh way to the fouthward and S. by W.

N. B. The Water appear'd white, as if it had been in a River.

About three or four in the Afternoon we faw Land bearing

W. and W.S.W. from us; and foon after faw it again due S. from us: Upon which having the Wind at N. we went away large

E.S.E. supposing we ought to get about to the fouthward of it. But it blew so hard and we had such a hollow Sea, that

we were oblig'd to take a our Top-fails.

'On the 2.4th in the Morrote, we faw Land on our Starboard fide, as we were standing away S.E. and E.S.E. not above a

Loft, the Wind then blowing fresh at W. We had Ground there at 40 Fe, the Land trending E. by S. very high and

mountainous, and the Hills cover'd with Snow. We kept on

our Courle with the Land, and about Noon went about it, but taw other Land to the E. of it, which was also rocky

f and high.

'Thefe Lands we presently understood to be two different Mains, separated from one another: Also it seemed as if there was an open Sound or Passage between, the Land lying as

we guels'd about 8 Lsalimder. We were the better confirm'd

a Description of I shall give it in

frein Water, they

t Desire; but bechored before the d we fet fail again

ing S.E. from us, hald de Wert who t from the Streight V. When we got

ne which we call

the Sea (that is, great Current runat. 53 d. and fupo Ls S. of the Enven to the E.

in Lat. 53 d. S. Wind at S. about oubled with) toand we made fail black Sand, with

eactly the fame at

ime to the N. fair fresh way to the

it had been in a

faw Land bearing t again due S. from e went away large the foothward of a hollow Sea, that

d on our Starboard S.E. not above a We had Ground

S. very high and now. We kept on on went about it, ch was also rocky

be two different t scemid as if there the Land lying as he better confirm'd

Ocean that was then before us, which made us exceeding 6 joyful, believing we should discover the Way into it which was never heard of before, especially not this Way.

' The 26th we had another Observation, and found our 6 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 Course southward, and saw very high Land to the N.W. In the Night we tack'd, and changing our Courie flood to the N.W.

' The 27th, having run this Course all Night, we found we were in Lat. 56 d. 51 m. The Weather was now exceeding cold, with Hail and Rain, the Wind W. and W. by N.

So we went S. again: Then having made a long stretch we tack'd, and stood NW. again under our Courses.

' The 28th we carried our Top fails, but had a great hollow ' Sea out of the W. with first a W. Wind, then a N.E. and

with that we held our Course S. as before, then W. and then W. by S. being in Lat. 56 d. 48 m. fo that for these several Days we made but little way fouthward, but gain'd up-

on our Longitude, by westing as above.

'The 29th we had the Wind at N.E. which was a great help to us; for holding our Course S.W. we gain'd both on our

fouthings and westings; but that Day we saw two Islands 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 stand N. again, and so went above between them and the Main: They were large Islands, had dry grey Cliffs on the

E. fide, and lower Cliffs on the N. fide, and lie in Lat. 57 d.

S. We call'd them Barnevelt's Islands; and having open'd the Passage between them and the main Land, we steer'd

W.N.W. About Evening we faw the main Land again, bearing N.W. and N.W. from us; which Land was the

fame we had feen stretching S. and S. by E. from the Streights

of Magellan, and which now stretch'd away S. by W. and

S.S.W. It was all hilly and very high, cover'd over with Snow,

and, as we perceiv'd the next Day, ended in a sharp Point · stretching out into the Sea full S. This we call'd Cape Horne,

' lying in Lat. 57 d. 48 m.

Then we had fair Weather and a N. Wind, but found a frightful Sea and vast Billows, the like hardly ever seen, out of the W. We held on our Courfe W. by S. and found a strong Current running within from the NE.

• The 30th we had still great Billows out of the W. and a ' hollow Sea, a strong Current still running to the westward, which to be fure made these Billows the greater. This all

concurred to fatisfy us that we had certainly an open way

upon that Course into the great South-Sea, We were then in · Lat. 57 d. 34 m.

• The 31st we had the Wind at N. when failing W. and W. by S. as before, we came into Lat. 58 d. the Wind often veering, and proving variable between the W. and S.W.

· this Course we insensibly doubled Cape Horne; after which

' we faw no more Land in these Seas; but had still very great • Seas with blue Water out of the W. All which farther at-

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fured us that we had the broad South-Sea Ocean right before us. The Winds were very variable, with Storms from almost every Corner, but chiefly W. and S.W. with Hail and

· Rain great store, and very cold.

• The 1st of February, tho the height of their Summer, and equal to our August, we had extreme cold Weather, with a Storm out of the S.W. Upon which we lay under our

main Courses, steering N.W. and W.N.W. with a terrible Sea.
The 2d the Wind came W. and blew still very hard; and

we flood away large S. into 57 d. 58 m.

The 3d holding the same Course, we found ourselves in 6 50 d. 25 m. which was the most southern Lat, we were in

· during the whole Voyage.

N. F. Most if not all the Ships that have gone this way fince have not been able to keep so well to the northward, but have been driven into 60, 61, and 62 d. S. Lat. before they could get their Westings far enough, to venture standing N. and N.W. again.

ture standing N. and N.W. again.

The 3d in the Evening, the Wind veer'd to the southward of the W. and then we steer'd N.N.W. lyin, hear the Wind

as we could, the Sea going very high. We such's we had been in 59 \(\frac{1}{4}\) d. S. but not by Observation: However, see-

ing no Land in that Latitude to the S. and finding the Winds

· continued S.W. by S. or thereabout, we flood fair N.N.W. all · Night; and the next Day we found our felves in Lat. 56 d.

Night; and the next Day we found our felves in Lat. 566 43 m. the Winds variable, but chiefly at S.W.

The 5th we found a strong Current out of the W. the Sea

went very hollow, and we had a hard Gale, so that we could carry no Sail, but drove afore it, (the Wind being S.W.) to

the northward; keeping her Head as near it as we durst, ly-

ing thus a Hull two Days and Nights.

The 8th the Wind came to the S. and we flood W. but the Wind coming to the N.W. we were driven to the fouthward

6 again into 59 d. fomething lefs, the Wind blowing hard at 6 N.W. and W.N.W. While it blew hard at N.W. we lay

close to it with our Courses out, and kept our Course W.

• The 10th the Wind veer'd S.S.W. and blew a fresh Gale, when believing we had run full enough to the westward, we

· fleer'd boldly N. not doubting but we were now for some · time fairly entred the South Seas. Holding which Course till

the 12th, we then found our felves in the Lat. 54 d. 15 m.

Whereupon we call'd all our Men up, and gave every one

An Entract of Sailing Directions for passing Cape Horn on the Terra del Fuego, into the Monsieur Frezier, Engineer to the French

HE Night between the 5th and 6th of May 1712, knowing our felves to be far S. we thought it proper to lay by, lest, as we supposed we were near upon the Coast of the Terra del Fuego, we should range

too near the Land; and we found we had good reason, for

irections for the Streights of le Maire.

can right before Storms from with Hail and

their Summer, cold Weather, re lay under our h a terrible Sea. very hard; and

nd ourfelves in Lat, we were in

gone this way to the northnd 62 d.S. Lat. nough, to ven-

the fouthward lear the Wind leafs'd we had However, feeleding the Winds fair N.N.W. all es in Lat. 56 d.

the W. the Sea so that we could being S.W.) to as we durst, ly-thood W. but the

the fouthward

lowing hard at t N.W. we lay r Courfe W. ew a fresh Gale, e westward, we now for some thich Course till at. 54 d. 15 m. gave every one

three Cups of Wine to chear them up; for we then found the Streights of Magellan lay due E, from us.

The fame Day, by Advice of our Council, and at the Demand of our chief Merchant Jacob le Maire, the new Palfage we had now discovered, and by which we had so happily

got thro' into the great South-Sea, was named the Streights of le Maire: Tho by right it should have been call'd William Schouten's Streight, after our Master's Name, by whose great Judgment and Skill in failing all was chiefly

' directed.

Thus far le Maire's Journal, which is the most particular, and was the most successfully perform'd of any that have gone that Way since, and perform'd in 25 Days.

N. B. This Journal mentions in express Words the great Dissiculty and Extremity they went thro' in performing it, much more than Sir John Narborough found in twice passing the Streights of Magellan, which he perform'd also in 16 Days.

' For the most part, fays Schouten, we had a strong Current, hollow Water, continual Mists, Rain, most

thick Weather, with much Storm, Hail, and Snow; whereby we endured much Trouble and Mifery.

The next Journal of this kind is the French Account given by Monf. Frezier, fent by the express Direction of the King of France, Lewis XIV. (as Sir John Narhorough was fent to the Streights of Magellan) to make a more full Discovery than had been made before.

As the former Account of le Maire was necessary to shew the happy steps taken by the sirst Discoverer, and to encourage others in new Attempts of that kind; so this is in a more particular manner suitable to our present Purpose, as the Author, from a most correct and exact Observation, has detected all the former Accounts either of Fraud or Ignorance in all their Charts; misplacing the Latitudes, Bearings and Distances of almost all the Capes and Shores upon the Coasts, and in giving wrong Directions for Working thro and by almost every Place; and has given more perfect Directions than any other for the passing those difficult Coasts and dangerous Seas about the Terra del Fuego and Cape Horne.

ns for passing by the Streights de la Maire, and about Fuego, into the South-Seas; taken from the French of to the French King Lewis XIV.

h of May 1712, thought it prowere near upon we should range ood reason, for

- 'Sunday the 8th, we put in boldly for the Streight Le Maire The Entrance is known by three uniform Hills, which we
- called the Three Brothers, lying in a Line near one another,
- ' and over them a high Mountain within Land cover'd with Snow.

when believing we had run full enough to the westward, we steer'd boldly N. not doubting but we were now for some time fairly entred the South Seas. Holding which Course till the 12th, we then sound our selves in the Lat. 54 d. 15 m. Whereupon we call'd all our Men up, and gave every one

An Entract of Sailing Directions for passing Cape Horn on the Terra del Fuego, into the Monsieur Frezier, Engineer to the French

HE Night between the 5th and 6th of May 1712, knowing our felves to be far S. we thought it proper to lay by, lest, as we supposed we were near upon the Coast of the Terra del Fuego, we should range too near the Land; and we found we had good reason, for in the Morning the Sea appeared very much changed in colour; and the next Evening we discover'd Land lying low, and bearing W.S.W. from us, dist. 9 to 10 Ls. It made at first in 5 or 6 Hillocks like little Islands: we took it for Cape Virgins, the E. Point of the N. Shore of the Streights of Magellan; and this we did on the Credit of the Charts and Journals, all which place it in Lat. 52 d. 30 m. but our present Observation alter'd much from that Situation; so we concluded it was the Cape Spirito Sancto, on the Terra del Fuego, which we afterwards found it to be. We heav'd the Lead, and found 36 Fa. with black Sand mixt with small black Stones.

The next Morning, the 7th, we distinctly saw the Coast

'Stones.
'The next Morning, the 7th, we distinctly saw the Coast of Terra del Fueço, and coasted it S.E. in an Offing of 4 to 5 Ls; 'tis indifferent high, rocky, and in Precipices along the Shore, with some Tusts of Trees, not many: the Land appear'd double, and over the first Coast the Mountains behind were all cover'd with Snow.

The bearing of that Part of the Coast may be ascertain'd to N.W. by N. and S.E. by S. with respect to the whole Globe, measuring it from the Streights of Magellan to that of Le Maire, and correcting it a half Rhumb, or 23 deg. for the

Variation N. E.

'Having thus coassed the Terra del Fuego within 5 to 6 Ls of the Streight of Le Maire, we lay by during the rest of the Night, at a dist. of about 4 Ls to Sea, in order to enter the Streight the next Morning; here we had 40 Fa. large clean Sand, as is usual in Roads.

'All the Night we had heavy Blafts at S.W. by Squals and Gusts, which brought the Snow or Sleet from the Mountains up the Country: yet we fell off but little, which we took for a Sign that the Current was not violent, or that it fet to Windward; which also is not likely, by reason of the

· opposite bearing of the Coast.

ew a fresh Gale, ne westward, we is now for some which Course till Lat. 54 d. 15 m. I gave every one

most all the Capes and Shores upon the Coasts, and in giving wrong Directions for Working thro' and by almost every Place; and has given more persect Directions than any other for the passing those difficult Coasts and dangerous Seas about the Terra del Fuego and Cape Florne.

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by Squals and rom the Mounttle, which we olent, or that it by reason 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 Three Brothers, lying in a Line near one another, and over them a high Mountain within Land cover'd with Snow.

• E. from those Hills at the dist. of little more than a L lies Cape St. Vincent; and a little farther E. from that, another

Cape called St. James: tho I have reason to believe this first Cape is really Cape St. James, and that Cape St. Vincent lies much more to the N. which I take from an antient Spa-

' nish Manuscript Chart, made, as I believe, by more antient ' Discoverers.

'Standing N.N.W. and N. from these low Capes, as we advanced, we plainly discover'd the Streight of Le Maire, or pening by little and little; till at length being do a L.E. from the first Cape, all the opening appear'd, which before was

flut in with the opposite Land, called, as by Schouten's Account, Staten Land. This remark is necessary, to direct you

of it: Many skilful Mariners have been mistaken here, and

that very lately, particularly the Captains of the Concord and the Incarnation, two able French Commanders, who thinking to have gotten their Passage here, found themselves already to the eastward of Staten Land, and were obliged to

go without all, only seeing this Coast at a great dist. W. from them, and being deceived by other three Hills like the Tres

Freres, which are on the Terra del Fuego.

'As foon as we were to the eastward of Cape St. Vincent, we found a rapid Tide like a Torrent; which made our Ship heave, and fet so violently, that the Spritful-Topfail pitch'd

often into the Water: but having fome notice of this, and observing the Course of the Tides, which is 6 hours or 6 and

a half, we had so taken our time, that it might favour us,

and ranged along the Shore within a L and a quarter at most. By this means we just enter'd the Strenght with the Flood.

which runs as rapidly to the fouthward as the Ebb had done
 to the northward; and this carry'd us quite thro' the Strengle.

N.B. The Flood here divides it felf into two Channels; one fets along the Streight, which is but 6 to 7 Ls wide.

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Sailing Directions for the Streights of le

(Le Maire faid 8 Ls) and the other fets along the out Coast

of Staten Land, running to the castward.

About the middle of the Streight on the Starboard-fide is Port Maurice, a small Creek about half a L wide at the Entrance, at the bottom of which there is a little River of good fresh Water; also you may have Wood very easy and plentiful.

More to the fouthward about 4 of a L is a Bay about 3 of a mile wide, but goes farther in; some call this Port 4 Good Success, and others Valentine's Bay. Here also is 4 Wood and Water to be had, and good light Timber to make 5 Topmasts of. The Port is good; a French Captain named 6 Brunet, in a Ship called the Queen of Spain, put in here Notember the 12th 1712, and anchor'd in the Mouth of the 6 Bay in 10 Fa. ouzy Ground, letting us know that other 6 Ships may do so after him, as Wind and Weather may permit: He water'd there also in a little River on the Starboard-fide of the Bay; the Water at first look'd somewhat reddish, 6 but soon became clean and good: they also wooded there,

and found Trees fit to make Topmasts.
About Noon, being a little to the castward of Valentine's Bay, the Tide turn'd, and run so strong, that we could not stem it: here we had a stiff Gale of Wind at S.W.
which afterwards increased, and blew very high, with such

dreadful Squals and Gufts, that they brought the Ship's Gun wale too, under our two Courfes reef'd.

However it was requifite to carry more Sail, feeing we flood over S.E. by S. to go about Cape St. Bartholomew, which is the fouthermost Point of the Coast of Staten Land. Here we stood S.S.E. by the Compass, and yet our true Course was scarce E. by S. the Violence of the Ebb carrying us away: The Ebb sets all along the S. side of Staten Land, and so comes round that way into the Streight of Le Maire. At length we past the Cape, and at the Close of the Night it bore N.W. from us about 2 Ls dist, but the Weather being

tempettuous, we were oblig'd to lie by under our Main-fail back'd and reef'd, being in great fear of our Lives, knowing we were to the Windward of the Land, and so near it, that the most undaunted among us were made sensible of this Extremity. In a word, we expected every Moment to run ashore in the darkest Night and the dreadfullest Weather imaginable, where there would be no room to help our selves. The Charts threatned certain Shipwreek, and we knew no other

Rule; and as we lay by, we must have fallen off E. and by S. respecting the Globe; which if we had done, and things had lain as they were described, we must all have been inc-

vitably lost; but thank Heaven, the Charts were all mistaken, and Staten Land on the S. side does not bear E.S.E. and W.N.W. as they lay it down, but lies E. and W. in re-

spect to the Globe, and inclines a little to the N. near Cape St. Bartholomew; and that was just where we happen'd to be, and where we observ'd it a little before Night.

It might be objected here, that the same Current which carry'd us thus siercely along the Coast of Staten Land,

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• pleased to endure the most extreme Cold, which it necessarily brought with it, and the tossing of a dreadful Sea, because it still carry'd us on our Course, which was to the N.W. but even that Comfort lasted not long, for the Wind came about again to the S.S.W. and blew so furiously, that we could fearce carry our two Courses reef'd.

' May the 14th, we were in 58 d. 5 m. the Wind blowing hard at N. we flood away W.S.W. when we loft fight of our

'Confort, and faw her no more, till we came to La Concep-'tion on the Coast of Chili.

'On the 17th the Wind veer'd again to the S.W. and we found it necessary to alter our Course also, not daring to stand to the northward for sear of falling in with Barnevelt Islands; fo we steer'd S.E. by S. Some Manuscript Charts we had, place those Islands in Lat. 57 d. whereas the common Opinion places them in 56 d. 30 m. However, as we were then in 57 d. 30 m. and the bog or Mist very thick, had we been upon or near them, the Wind blowing so very hard, and the

upon or near them, the Wind blowing to very hard, and the Sca going to high, we should not have been able to weather

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On the 18th early, the Wind came about more foutherly, and deliver'd us from the Apprehensions of running assore: fo we bore away N.W. the Wind blowing excessive hard, and the Sea running Mountains high; and to add to our Hardships, the Weather was so extremely cold, that our Men could hardly bear to stand upon the Decks.

'This held us for three whole Days and Nights, the Wind often varying, but never abating. The 4th day, (the 22d) it came to the N.W. and the Air was milder; the Mist drove away to the S. castward, and it clear'd up a little: but still we had a grown hollow Sea, and we lay by some hours with

we had a grown hollow Sea, and we lay by tome hours with our Courles reef'd. The 25th we did the like; and the 26th we had it quite calm, which was a great Rarity in these Seas.

We had now hung a great while lingring in the Lat. of 59 d.
58 m. for fear we were not out of the Longit. of Cape Horn:
but as I conceived Hopes we were 9 d. to the westward of

it, I propos'd, and it was refolv'd at all hazards to stand to the N.W. in order to stretch into the South-Seas, along the W. side of the Terra del Fuego.

But just as we were preparing for this Course, the Wind sprung up N.W. and W.N.W. and blew with such Fury, and brought such a dreadful Sea along with it, that we were obliged to strike all our Yards and Top-masts, and even our

· Mizen-yard and Mizen Top-mast to the very utmost, and · put right afore the Wind for our Lives.

N. B. Here the Author breaks out in an Exclamation at the Misfortune of being exposed to such a dismal Voyage, and such Terrors and Hardships as he had been under for so many days, in passing this dreadful part of the World; where, as he says, besides the Reslection on Dangers past, and the hourly Dread of what was to come, he had been for near a Month without Intermission in such Agitations by Shocks and violent Rollings of the Ship; and by the Horror of the Waves, which swell'd Mountain high, that there was no standing, sitting or lying, without grasping

tempelluous, we were oblig'd to lie by under our Main-fail back'd and reet'd, being in great fear of our Lives, knowing we were to the Windward of the Land, and fo near it, that the most undaunted among us were made sensible of this Extre-In a word, we expected every Moment to run ashore in the darkest Night and the dreadfullest Weather imaginable. where there would be no room to help our felves. · Charts threatned certain Shipwreck, and we knew no other · Rule; and as we lay by, we must have fallen off E. and by S. respecting the Globe; which if we had done, and things · had lain as they were described, we must all have been inc-' vitably loft; but thank Heaven, the Charts were all mistaken, and Staten Land on the S. fide does not bear E.S.E. and W.N.W. as they lay it down, but lies E. and W. in respect to the Globe, and melines a little to the N. near Cape ' St. Bartholomew; and that was just where we happen'd to be, and where we observ'd it a little before Night.

It might be objected here, that the fame Current which carry'd us thus fiercely along the Coast of Staten Land. 4 might prevent our driving fo much to the N.E. as we should otherwise have done, and as we fear'd we should, because it mult have run as the Coast lies, and so have kept us at the same diffance. But other Ships have observ'd the Position as well as we, and found the Difference: Besides that, 'tis evident that we drove very much to the E. which could not have · been if the Coast had lain as the Charts describe; for about nme in the Morning the Weather clear'd up a little, yet we · faw no more Land that way, tho by the Charts we could not have been above 2 Ls S. or S.E. from it at most, especially if the Land on that fide extends full 13 to 14 Ls S. from the

Entrance of the Streight, as all who have coasted it assure

us, and as we have reason to believe.

· While we were rejoicing for having escaped this imminent Danger, we were made uncafy for our Confort the Mary, which we had left in the dark to Leeward of us; but we fpy'd · her again in the Morning, fafe, having fallen off with us a-· bout a L from the Coast. Now a Calm succeeded that hor-· rible Tempest, and we had bod some Leisure to repair our · Damage, and affift one another.

After this the Wind came about from the N.N.W. where it was when it blew such a Storm to N.N.E. and blew a fresh · Gale, by which in about 24 hours we recover'd part of our way we had loft by driving. Indeed from 43 1 d. to 57 where we now were, we had no eafterly Winds, and scarce any fair days, but foggy and changable, the Winds still ranging from N. to S. (West about) and generally hard Gales: We · fearce knew what it was to have a moderate Gale; and from 16 d. to 50, we had but two days of gentle mild Weather.

· This Blast therefore from the N.N.E was the more welcome to us, because unexpected, and because it carry'd us off from · a Place where we were in the utmost Danger and Distress.

' Yet this kind Gale foon shifted too, and came to the S.E. and blew violently there for iome time; but it flack'd again, and we took the Advantage of it for 24 hours, well enough

but as I cond it, I propos' the N.W. in W. fide of the But just a fprung up N.V brought fuch bliged to stri Mizen-yard

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N. B. Here the Misfor and fuch T so many da where, as and the ho for near a by Shocks Horror of there was fomething i continued v gether, and the most to firm what this Paffag Streights o rienced Sea most practi

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Having give Terra del Fue the shorter, th but as I conceived Hopes we were 9 d. to the westward of it, I propos'd, and it was resolv'd at all hazards to stand to the N.W. in order to stretch into the South-Seas, along the W. side of the Terra del Fuego.

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But just as we were preparing for this Course, the Wind forung up N.W. and W.N.W. and blew with such Fury, and brought such a dreadful Sea along with it, that we were obliged to strike all our Yards and Top-masts, and even our Mizen-yard and Mizen Top-mast to the very utmost, and

put right afore the Wind for our Lives. N. B. Here the Author breaks out in an Exclamation at the Misfortune of being exposed to such a difinal Voyage, and fuch Terrors and Hardships as he had been under for fo many days, in passing this dreadful part of the World; where, as he fays, besides the Reslection on Dangers past, and the hourly Dread of what was to come, he had been for near a Month without Intermission in such Agitations by Shocks and violent Rollings of the Ship; and by the Horror of the Waves, which swell'd Mountain high, that there was no standing, sitting or lying, without grasping fomething that was well made fast: and adds, that all this continued with only one day's Intermission for 26 days together, and that to such a degree, as he had never seen in the most tempestuous Climates. This I mention to confirm what is faid above, of the Dangers and Difficulties of this Passage; which are such, that it is probable the Streights of Mazellan will be thought by the most experienced Scamen, as they are already by the French, the most practicable, safest, and easiest Passage into the South-Sea. Monfieur Frezier then concludes his Account of the

Passage thus.

It was our good Fortune that this Storm lasted but 24
hours, at least in its first Violence; after which it came about by the W. to E.S.E. and blew a more moderate but fresh
Gale; and the Sea continued running very high for several

days, even after the Wind was quite flatted.

By this Change of the Wind to the castward, we got so far to the westward, that to our great Comfort we were able asterward to make use 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 so go every Day sarther out of our Course. 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 51 d. having been 28 days in the Passage, making then the best of our way for the Port of La Conception on the Coast of Chili, which was our appointed Place of meeting with the Mary our Consort, if we were separated one from another, and where we very happily found her, or rather were sound by her, we getting there 2 days before her.

Having given these two Accounts of the Passage round the Terra del Fuego by two Foreigners, we shall make the third the shorter, tho of our own Countrymen; which however is necessary

necellary, because they took a different Course from the other two; and perhaps theirs was the best of the three, for they went round the Island of Staten Land, and passing neither the Streight of Magellan nor of Le Maire, but keeping out at Sea E. by S. and E.S.E. avoided all the Dangers of Lee Shores. Islands, Rocks and Capes, mention'd by both the other; and

yet they counts b to adver be at a L telf.

An Extract of the Account given by Captain W Cooke, from on board the Duke and Duchess, with the Particulars of their Passage round th Seas.

To avoid a Repetition of Particulars, much the fame in Substance as the others, this Account amounts in Substance to this.

IRST, That they took their Departure Decem 2, 1708. from the Island Granda on the Coast of Brazil, where they had staid 12 days, and had revictuall'd and refresh'd themselves sufficiently for their long Voyage, and intending to put in no where,

or make any other Port, except forc'd in, till they came to the

Island of Juan Fernandes in the South-Seas.

Accordingly they fet their Course from the said Coast Lat. 23 d. or thereabouts as above, E.S.E. and by the 15th of December were by a good Observation in Lat. 49 d. 32 m.S. Here or hereabouts they made Land, but it was evident it was not the Continent or main Land of America, for it bore S.S.E. from them dift o Ls, and at 12 a-Clock the 28th it bore S. W. the W. end dift. 6 Ls appearing as a long Tract of Land, whether Islands or not they did not know: but after some time it appear'd in three Islands, and the next Day in feveral more, lo that they believ'd all the Coast which they had feen so long was only a continued Range of Islands, tho joining to some low Lands, which they could not fully discover.

They could not weather this Land, the Wind blowing hard westerly; so 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 guess E.N.E. and W.S.W.

N. B. This is certainly the Land called Falkland's Illands, which some Charts do describe, but very few; and those few it feems 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 first Islands extending about 120 miles in length.

They could not depend on their being clear from going on Shore upon them in the Night, not knowing how far they might run out to the castward; and therefore they reef'd their Courses, and lay by all Night with their Heads to the norththe Wind blowing hard at W. by S.

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the other for they either the g out at the Shores, her: and yet they met with their Difficulties also. So that all the Accounts being duly weighted, the skilful Mariner who is resolved to adventure into these difficult Parts of the World, cannot be at a Loss for Directions, and may make a Choice for himfelf.

by Captain Woods Rogers, and Captain Edward and Duchefs, two Private Men of War of Bristol, assertional the Terra del Fuego into the South-

ie in Sububstance to

the Sail to Leeward hung in the Water, and all a-back. In this Condition the Sea breaking over them in a terrible manner they took in a great deal of Water to Leeward; and being ready to founder, wore the Ship, and flood away afore it. The Storm increasing, tho they recover'd their Mainfail, yet

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they were not able to bring to again, the Sea going Mountains high, but kept standing and rim away to the southward, her Consort the Trike following be expecting she had spring her Main-Mast. They continue this Condition till about 3 in the Morning, when the Storm began to abate; but the Sea continued to go very high. The Triebest had suffer'd very much; the Sea had broke in at the Cabin-Windows and over the Poop, had fill'd the Steerage and the Waste; and one Sea broke so entirely over them, that the Ship receiving as it were a Check in her Course, seem'd to stand stock still for some Minutes; which put the Men into the utmost Consustion, expecting they should immediately sounder; but being a strong well-built Ship, and the Men very handy at clearing their Waste, she

recover'd it, and went on, tho in a dreadful Storm, not to be

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described by words.

N. B. These things are mention'd, farther to confirm what has been said, namely, that the Rage of the Winds and the Violence of the Waters in this Part are such as are not ordinarily met with in any other Place if ever: and as it is almost out of the Power of Art to carry a Ship thro' them; also to note, that no Ships have pass'd this way but at the extremest 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 Passage of the Streights of Magellan; and therefore those things may well be called part

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On the 10th of Jan. the Storms abating, they had an Observation, and found themselves in Lat. 61 d. 53 m. Lorgit W. from London 79 d. 58 m. so that now they were affired of being far enough to the westward of Cape Horne, and open with the great southern Ocean. 'Tis also the farthest S. that we have any account of, has been run by any other Ship.

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They could not depend on their being clear from going on Shore upon them in the Night, not knowing how far they might run out to the castward; and therefore they reef'd their Courses, and lay by all Night with their Heads to the northward, the Wind blowing hard at W. by S.

On the 24th, being clear of the Illand above, they fet fail again, steering S.E. Lat. 52 d. At Noon they faw the Land again, and observ'd that it went trending away southerly.

On the 25th they had a strong Gale at S.W. the Islands still in view; but at 6 in the Evening lost fight of them, and could never come near enough to see whether they were inhabited or no. Here they spent some time in giving Chase to a Ship which they saw under their Lee-Bow standing S.W. But next night lost fight of her, and the next Day gave her over, and return'd to their former Course S.E. which is mention'd, to note that Ships from the South-Seas (as that must be) have kept this outward Course, as well returning as going out, even before this.

On the 26th at Noon they faw Landagain, being a low plain Island, bearing W.N.W. dist. 4 Ls, and not taken notice of in any of the Charts. The Wind blowing S. they stood away E. for fear of running affore upon the faid Island, and kept as near the Wild as they could. The next Day it blew very hard with strong Squals from the S. and about to the W. Now being past the Latit. of the *Streights* of Magellan, as also of Le Maire, they made all sing, lowering their Guns into the Hold, and recting their Courses, expecting hard Gales, and a high Sea, Latit. 55 d. 38 m. the Course S. by E.

Dec. 30, having had fresh Gales from the W. and W.N.W. they had run at a great Rate; and having an Observation,

found themselves in Lat. 48 d. 20 m.

Jan. 1. Fresh Gales from the W.S.W. to W.N.W. with Msst and Fog, but the Sea moderately smooth, which continued to the 4th, when just at Noon the Wind having slutter'd a while about W.S.W. it began to blow very hard. The Duke expecting the worst, got down her Fore-Yard, and reef'd her Fore-stall and Maintail. About 2 a Clock it blew a violent Storm, and came on with a great Sea prodigious high and hollow.

A little before fix the Duchefs made Signals of Diffres: In lowering her Main-yard, the Tack flew up, and the Lift unreev'd;

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of Sailing Directions for pailing into the South-Seas.

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Tho the Winds were abated from the 5th to the 10th of Jan. yet they had a grown Sea, and especially out of the W. with strong Gusts and Squals of Wind; which kept the Men to such hard Service, that with the Extremity of Wet, Cold and Labour, many of their best Seamen sieken'd, and almost

funk under the Weight of it.

determed by words.

From the 10th they steer'd away N.W. and N.W. by N and on the 15th found themselves in Lat. of 56 d so that then they accounted themselves in the South-Seas, having in all this Run never made any Land either of Staten Land or the Terra del Fnego, Cape Horne, or any where else, except the Islands mention'd above; and having been 23 days in the Voyage round, viz. from the 22d of Dec. to the 15th of Jan.

Thus you have Directions founded on the Experience of able Mariners of all the three Nations, for failing thro' this dif-

ficult the important Passage.

But it must not be omitted, that besides all these ways, there is yet a fourth, which has been discover'd very lately by the French, and which bids fair to be the easiest and satest of all; and this was unhappily over-look'd by Sir John Narborough in his Observations, which we have already given an Account of.

In that Account you may observe a deep Bay, which Sir John gives a short Description of, on the South Shore of the Streight, and opposite to Elizabeth's Island, which he calls Whale's Bay, because he saw thousands of Whales playing in it; but adds, that he did not fearch far into it.

It was very unhappy that Sir John, whole whole Errand and Defign was to take a perfect Survey, and make a complete Difcovery, thould fee fuch a deep Sound or Bay, and not fearch into it; especially if it is true, as Monf I rezier afferts, and as we have great reason to behave, that this Sound was an Opening into the great South-Sea; and not only so, but that whereas the Crooked Reach and the Third Narrow of the Streight, which Sir John confesses to be the most difficult and hazardous of all the Passage, are by that Opening avoided, and that the other, which is now call dthe Channel of St. Barbe,

Sailing Directions for the Coasts

is an easy and much shorter Passage, having good Soundings, safe Harbours, and several Roads and Anchoring-places on both sides; so that there are no visible Dangers yet discover'd.

This Outlet or Passage, we are told by Mons. Frezier, was discover'd Anno 1713, May the 15th, by Capt. Marcanille, in a Ship or Tartane of Marseilles, call'd the St. Barbara. Take the Account from his own Words thus:

About fix in the Morning they sail'd from Elizabeth's Bay on the N side of the Channel of the Streight of Magellan, steering S.W. and S.W. by S. They took the common Channel for that of the Rio de Massacre, and were standing to the S.W. on an Island which they took for that call'd PIsse Dauphine. They were assisted by the Currents, and a good Gale at N.E. both which were in their favour: With these Helps they ran along the Island; and within an Hour after

they had pass'd it, they found themselves entred into a large Channel, where on the S. side they could see no Land, except a great number of small Islands, or rather Rocks, a-

of mong abundance of Breakers of the Sea, which when the Wind blew off Sea made a horrible noise.

'As the Design of their Voyage was to pass thro' the usual 'Channel of Magellan, they began to be convinced they were out of the way, having a true Chart of Sir John Nar-

' borough'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 some Discovery of the Coast, and if possible 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 Coasts of Chili and Peru in the South Seas, from Cape Desseada at the Enin Lat. 53 d. 10 m. to Chulao on the Coast of to the Bay or Gulph of Panama.



ROM Cape Desseada, which is the southermost Point of the Mouth of the Streights of Magellan, to Cape Pillar, which is on the same Shore, but a little more opening with the Streight, is about 2 Ls N.N.E. From thence N.N.W. lie 4 Islands in the

open South-Seas, and quite clear of the Streights call'd the Illes of Direction, dist. from Cape Pillar 6 Ls, from Cape Delleada 7½ to 8 Ls, and from Cape Victoria, which is the N. Point of the Streight, a little less than 4 Ls, being in the Fair IV ay or Entrance into the Mouth of the Streight; the eastermost of them standing up in a Pico or high Rock, is call'd by the Sailors Sugar-loaf Island.

From Cape Victoria the Land falls off at once to the N. and the Coast of Patagonia appears trending away due N. and S. a wild desart Coast, which makes in Islands and Rocks next the Sea, and high Mountains within the Land, the Tops of them generally cover'd with Snow.

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there in 14 Fa. very good Ground, the Bottom a grey and white Gravel.

6 The next Day they weigh'd, and the Bay being open to the E.S.E. they made some Trips to get out, and then stood ' away S. S. by W. and S.S.W. and by Noon they were got ' out from between the Lands and Islands describ'd; and ha-' ving a very clear Observation, found themselves in Lat. 54 d. 34 m. And this Lat. was confirm'd by another Observation which they took the next Day having the little Islands mention'd above, in fight, bearing E. from them, and there they ' found 54d. 29 m. And thus they were in the open South-Seas 6 sooner than they expected, and there they found 54 d. 29 m. ' There was also a larger Island, the S.E. Point of which ' they call'd Cape Noir, or the Black Cape; the Land appear-' ing at a distance very dark and black. The little Island it self is a Rock shaped like a Tower, of an extreme height, by which there is a smaller much of the same Shape. If so, it would be ' next to impossible to miss this Channel, if sought for in its proper Latitude, and upon fuch very particular Marks.'

N. B. The Ship's Crew say there is a good Bottom and moderate depth thro' that whole Channel, and that great Ships may pass there without any Danger, the Channel it self

also being 2 Ls broad in the narrowest part.

I leave this Account as I find it, having satisfy'd my self by giving all the sailing Directions that have come to our Hand, or are possible to be had, concerning this important Passage to the South-Seas; without passing any Judgment on the whole, other than this, That certainly this last merits to be farther search'd into, as being in all probability capable of giving the easiest and safest Passage of all the rest.

Chili and Peru, on the West Shore of South America Steads at the Entrance of the Streights of Magellan, a the Coast of Chili in the Lat. of 43 d. S. and thence

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N. B. All our modern Navigators and Men of Art complain that the Charts are fall in describing this Coast: Sir John Narborough says they do not lay down the leveral Islands which lie upon it, but describe it all along as a strait Coast, and complains that there are, besides the above-mention'd, several other Islands adjacent to the Coast more southerly, particularly in Lat. 45 and 45 d. but that none are laid down.

It may be observed also that Mons. Frezier makes the like Complaint of the old Charts, and particularly of the Manuscript French as well as Spanish Charts, relating to this part of America, which we call the Coast of Patagonia: He says, When we came up to 40 d. 40 m. Lat. we were surprized to see Land 40 Ls sooner than we expected, according to the Manuscript Chart of St. Malo; tho we had found it better than the Dutch as far as the Streight of le Maire. In short,

we found that the Peter Goes had thrust back the Coast of

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of them generally cover'd with Snow.

The first known Land, tho uninhabited, is an Island call'd by the Spaniards, Neustra Sennora del Socoro, or Our Lady of Socoro, or of Succour: The Course lies along with this Island N.E. by E. the Land makes rounding up at the eastermost end, and with a Ridge running from end to end, tho lower in the middle than at either end. The S. Shore is all rocky and soul, and the Rocks lie far out very dangerous. This Island is in Lat. 45 d. The Variation of the Compass here 11 d. easterly.

N.E. from this wild Place lies another large Island, which Sir John Narborough went a shore upon for Discovery, expecting it had been the Main of Patagonia, but found it an Island, and uninhabited also; and not sinding it in any of his Charts, 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 Island: He found Wood and Water here in great plenty, and good anchoring, but neither

Man nor Beaft on the Place, or any Refreshment.

There is a Channel between this Island and the Main, but it is foul and dangerous, many Rocks lying in it under Water:

The Passage is about 4 Ls in length.

S.E. from Narborough's Island, upon the Main, and dist. 3 Ls, there lies a large Sound running far into the Land, and into which a large River empties it self: The Opening lies in E. and W. in Lat. 44 d. 50 m. All the Coast to the southward is wild, uninhabited, and strew'd with Islands and Rocks, which stand up copling like Pico's, as if giving warning to Sailers to keep off at their peril.

N. from Narborough's Island, in Lat. 43 d. 47 m. lies another call'd No Man's Island: This is the same which the Charts make to lie at the S. end of the Island Castro, and at the Mouth of the Channel which runs up between Castro and the Main.

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N. B. All our modern Navigators and Men of Art complain that the Charts are false in describing this Coast: Sir John Narborough says they do not lay down the several Islands which lie upon it, but describe it all along as a strait Coast, and complains that there are, besides the above-mention'd, several other Islands adjacent to the Coast more foutherly, particularly in Lat. 45 and 45 d. but that none are laid down.

It may be observed also that Mons. Frezier makes the like Complaint of the old Charts, and particularly of the Manuscript French as well as Spanish Charts, relating to this part of America, which we call the Coast of Patagonia: He lays, When we came up to 40 d. 40 m. Lat. we were surprized to see Land 40 Ls sooner than we expected, according to the ' Manuscript Chart of St. Malo; tho we had found it better ' than the Dutch as far as the Streight of le Maire. In short, we found that the Peter Goes had thrust back the Coast of Patagonia 60 Ls too far westward, with respect to Brasil. yet according to his Longitude we here came upon the Shore very exactly; so that it cannot possibly be right on ' both sides,' There are many other Objections against the generality of the old Charts, but too long to infert here.

There is little of note from the Mouth of the Streight of Magellan, except as above, to the Island of Chiloe or Chulao, in Lat. 42 d. 30 m. From the N. Point of the Streight call'd Cape Victoria, to the southermost Point of the Islands in the Gulph of Chilo, called Æcon sin Salida, is 62 Ls; from thence to Cape Corzo, in a Nook or Bay, 36 Ls: And from Cape Corzo to Cape Tres Montes 63 Ls more N. and S. In all which distance there are some Bays and Rivers, but no Ports or Towns; neither do we meet with any Inhabitants, at least Europeans, and very few others.

N. B. From the Streight of le Maire, to Cape Desseada,

or to the twelve little Islands off of that Point call'd the Twelve Apostles, the Coast winding round Cape Horne, the distance is accounted, without allowing for the south-

ing and westing, 125 Ls.

The Island of Chiloe is very large, the unequal in its parts; 22 Ls in length N. and S. but in some places not above 4 Ls in At the N. Point is the Cabo del Anco, from whence all the Gulph or Inlet between the Island and the Bay is call'd the Bay of Ancon. It is full of Woods and large grown Timber generally Cedar, but very fit for building of Ships; and they build Ships here for carrying the Timber to other places, to that here must be both Business and People.

On the infide of the Island is a good Road; the Entrance goes in, on the S. of the great Island, and between that and the Island Guafo. The Bay is full of Islands, too many to deferibe; nor are they of any use in Navigation, seeing there

are no Ports or Commerce to bring Shipping to the place, except to the great Island, as above. All the W. side of the Island is craggy and foul, except one little Bay in the Middle, where is the Port of Chulao: But the best, or at least the chief Settlement, is on the E. side of the Island, at the Spanish Town of Casiro de Chiloe. Here the Ships come from Peruto load Timber as above for the Shipwrights of Callao, Guiaguil, &c.and here are oftentimes Ships of War also built. If you would go in here, it must be by the S. Channel; also between the main Island, and the Isle Guafo. It is a fair deep Channel, no less than 10 Ls wide; and you may turn it up or down, it is all clean from side to side, neither Rock or Island in the way.

The Island Guafo is 4 Ls in length, with two great Points, one stretching out N.E. and the other S.E. the Island lying in that Position. The S.E. Point is foul, and has several Shoals running out from it half a L to Sea, and several Ships have been lost upon them; therefore you must keep off at least

near a L, and keep your Lead going all the way.

N. B. The middle of the Island where the Castle is, lies in

Lat. 43 d.

The whole length of the Bay of Ancon, or Chiloc, is 96 Ls in length; the S. part is call'd Cabo Tres Montes, lying 10 Ls S. from Guafo, trending N.E. and S.W. The Cape is high and mountainous, and at the Exremity forms three Points, from whence it has the Name of Tres Montes.

At the N. part of the Bay lies the Port and Fort of Caralmapo: Here the Spanish Ships put in, to land the Supplies necessary for the several Garrisons upon this Coast. To go safe into this Harbour you must lie close aboard the Shore on one side or the other; else the Current, which sets out between the Island Chiloe and the Main, and is very strong in the Mid-Channel, will push you out, and you will not be able to stem it, no not with a stiff Gale of Wind.

The Port of Caralmapo is at the Bottom of a finall Bay, in Lat. 42 d. 30 m. There is deep Water, and you may anchor close to the Shore. From this Port to the nearest Land of Childe is 2 Ls N. and S. The N. Land of the Island is

call'd Punta de Anco.

From hence the Shore lies N. and S. to the Babias, or Pass of Lago, dist. 3 Ls; and from the Bays of Lago to Point Godoi is 4 Ls more N. and S. None should go into the Bays of Lago but upon evident necessity; and then at their peril let them keep close to the N. Shore of the Entrance, for the S. Shore is foul, and has many dangerous Shoals, which run out very far into the Sea, and make it difficult to know the Channel: And tis very rare to get a Pilot there.

From Point Godoi to Rio St. Pedro, or St. Peter's River, or as some write it, Puerto de San Pedro, the Port of St. Peter, is 12 Ls. On the Coast between lies Point Quedar, 8 Ls to the S. of St. Pedro, the Course N.N.E. The Coast between trends N.N.E. and S.S.W. There are three Rocks lie off the Point Godoi, but they are bold and steep too, so

that you may fail close to them on any fide.

From this Point Pedro to Cabo de Galera the Coast continues to stretch away N.N.E. The distance from Point One-

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S.S.E. and going under the E. Shore in 9 to 6 Fa. The Point under Fort de Morgue being flat off, almost half Channel over. Keeping thus under Shore, you come to another Point on the Larboard fide, called *Point de Corral*, on which there is

Keeping thus under Shore, you come to another Point on the Larboard fide, called *Point de Corral*, on which there is also another Fort called *Fort du Corral*; under which there is very good anchoring as in a Harbour, and which is called *Port Corral*, but that is out of the ordinary Channel: To go in there, Ships must of necessity round the Shoals of the first Fort, and then steer in on the Starboard side to a Fort which lies on that Shore, purely to defend the Road, which is very good: also when they round the said Shoals, they must go so far over to the other Shore, as to come under the very Muzzles of the Guns of a Fort on the Larboard side, called *Fort de Niebla*, the Shoals lying off so far into the Channel as to make it necessary.

Opposite to this Road, under Port Corral, lies an Island due E. and W. from it, called the Island of Constantine Peres; on which there is another Fort called Mansera, with a large Battery of Cannon. Between this Fort and Battery of Mansera, and the Fort Niebla on the Point mention'd before, goes the Entrance into the Harbour of Baldivia. There is another Entrance also on the back of the Island Constantine

Peres, but it is only for small Boats.

If you go up to the Town, you must go in here between thele two Forts, ranging along the side of another large Island; behind which, upon the Main, is the Port, which is so commodious, that you may lay your Broadside to the Wharf, and land or load Goods without the help of Boats, as at a Crane or Key.

Whereveryou anchor in these Channels, you are safe against all Winds: also if you have but Water enough, you are sure the Bottom is good, being a hard oaze; and there's no Sea or Swell, except in *Port Corral*, and there only when the N.Wind,

which blows right in, blows hard off at Sea.

From the Morro de Bonifacio to the Port du Corral is 5 Ls S. by E. From the Headland, or Point Gonzales, to 1 ort Corral, is a little above 2 Ls. The Courie from the fame Mouth of the Harbour to Fort Niebla is N.W. and S.E. when you are in this Course, Mid-Channel, opposite to Port Niebla, you are just between the two Forts Niebla and Corral, the latter due S. the former N.N.W. In the Road of Port Corral you have from 4 to 7 F.a. where you please: 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 Spaniards if they can: you must therefore take care not to let your Boat lie aground, and to keep your Oars as well as Arm. ready. Many Europeans have been murder'd here for want of this Care.

The Spaniards call this the Key of the South-Seas; and the Port being so good, it is for this reason they have fortify'd the Entrance with so many Lines and Batteries, there being above 100 Guns to pass before you can come into the inner Channel, besides what are at the Town it self: yet it is not difficult to attack the Place by a small body of Men landing below the Forts; the Dutch once took it by that Method, but were obliged to abandon it again in 1613. After which the Fort May-

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Coming from the fouthward up the Coast of Chili, you first see Punta de Galera, lying S. by W. from Morro Bonifacio, dist. near - Ls, Lat. 39 d. 36 m. Off from this Point of Galera lies a Riff of Sand, and Rocks shooting N.N.W. into the Sea above a L. You must give it a good Birth, and double it as if it were a Cape; then steer away E. into the

Bay, with a E.N.E. Courfe.

After standing in thus sometime, you will see to the E. of you, a Point with a Battery of Guns upon it; this is call'd Morro Gonzales, which lying S.W. by S. in a strait Line from Morro Bonifacio, makes together the Inlet or Mouth of the River of Baldivia; the Mouth of the Harbour properly indeed beginning here, tho some place it at the Punta Galera.

The Entrance at Point Gonzales, or Gonzalo, is about 4 Ls wide, drawing a Line to the N.E. by E. from it; and the going in lies Mid-Channel S.E. having 23 to 20, and fo shoaling to 12 Fa. Water, till both Shores drawing towards one another, contract the Channel to something less than a L in breadth; where on the S. Shore stands a Fort with a Battery, call'd Fortaleza de Morgue. Here you steer sorward, keeping

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If you are bound to the northward from this Port, you must always endeavour to stand out to Sea for at least 7 to 10 and 12 Ls; for the westerly Winds which blow here so frequent, are often so violent, that they will endanger beating you back again into Harbour, or putting you to struggle with a Lee Shore which may be very dangerous.

From the Morro del Bonifacio at the entring into Baldivia, to the Island Mocha, the Coast lies N. and S. the dist. between them 25 Ls. Opposite to it on the Main is the Rio de Imperial, the Island Mocha bearing from the Main E. by S. and with Rio Imperial N.W. by W. and S.E. by E. also it bears with Point Galera N. by W. and S. by E. and with the Island of Juan Fernandes N.W. by W. and S.E. by E. dist. 80 Ls.

Between Morro del Bonifacio and the Rio Imperial, lie first the Coast of Quevete, or Alguroite, the lowest flattest Land on all this Coast, dist. 15 Ls; from thence to Imperial 10 Ls. There are some Shoals lie off from the Island of Mocha W.S.W. keep off therefore from that side of the Island, with your Lead and Line in hand: The Land is high, and the rest 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 Coast lies N.N.E. and S.S.W. to the Island of St. Mary, or Santa Maria: The dist. is 10 Ls to Tucapel, and 10 more from Tucapel to St. Mary; or according to other Charts it lies thus: From the River Imperial to Tucapel 10 Ls; from Tucapel to Porto Cornero 4 Ls, and thence to St. Mary's 10 Ls. The Disserence seems to be occasion'd by a Bight or Bay, which goes in to Porto Cornero.

The Island of St. Mary lies opposite to, or as it were in the Mouths of the Bay of Lavapie. Here is good Anchoring-

ground

ground under the Island on the side next the Main, and the Bay assords good Shelter from southerly and westerly Winds; but the N. or N.N.W. blows right in, and makes a great Sea. The Bay is dist. from the River Biobio, or Viovio, near 7 Ls.

On the off or W. fide of St. Mary's Island, there runs out a Shoal near half a L into the Sea; you must be very careful of it, for several Ships have been lost upon it. This Shoal and the Tetas de Viovio bear from one another N.E. and S.W. These are two high Rocks at the Mouth of the River Biobio, and by which the Entrance 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. Vincent; 'tis a fafe Harbour, and fecur'd against all Winds ex-

cept a W Wind, which blows right in.

From the Island 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. Vincent.

This Point of Talcagnama, with the Island Quiriquina, make the true Port or Haven of the Conception; that is, they lie in the Mouth of the Bay, the Island lying off and thwart the River, and within the Bay, and the Point of Talcagnama on the Starboard side of the Entrance due W. from the Island, and lastly, the City of the Conception S.E. from the Island in the Bottom of the Bay. The City is rather called Penco, and the Bay and River La Conception; but the latter has swallowed up the former, and they are ordinarily called all by the same Name.

This Port is distinguished also by the Island Quiriquina, lying 2Ls N. from the Tetas or Dugs of Biobio. That Island forms 2 Passages, one N.E. from it, and one W.S.W. The former is the best for large Ships, being half a L wide, and clear of any Danger; the other may be passed with Care, and in case of necessity; 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 Channel.

When you are enter'd, you may anchor in 15 Fa. foft black ouze: take care to lie to the fouthward of the Point called Herradura on the Continent, and S.E. by S. of the Point of the Island Quiriquina, with which the Point Talcaguama forms the Entrance

Within the Point Talcaguama lies the Port or Harbour of the fame Name, dist. about 2 Ls. You may ride there in 3 to 4 ½ Fa. soft ouze; and you ought to moor N. and S. two little Points of the Peninsula bearing from you N. by W. upon a Line from each other, and a Crook called The Three Maids, N.W.

The whole Bay is a beautiful Place; it is 2 Ls wide E. and W. and 3 Ls deep in, N. and S. most of it clean Ground: yet there are but 2 good Roads in the whole Bay, one at the S. Point of the Island Quiriquina in 10 to 12 Fa. a Cable's length from the Shore, and which, tho a good Road, is lets frequented than the other, because remote from the Town: the other at the bottom of the Bay, as is said, near the Village de Talcaguama, in 4 to 7 Fa. the bottom soft black oaze.

To come to this Bay, Care must be taken to avoid the Tail of the Shoal I have just spoken of, which stretches out

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The Port of Herradura is in Lat. 36 d. 15 m. S. it lies in a finall Bay 1:10 a Horshoe, from whence it takes its Name: There are 3 or 4 high Rocks in the Entrance into the Bay, by which the Road within is Landlock'd from all Winds that can blow. From this Bay, or the Point of it, the next Port N. is Itata, or Itata, dist. 5 Ls, no Place of importance between; neither is Itata it self a Place of any Business: there is indeed a small River called Itata also, but the Port is not good.

From Itata to Point Humos, the Coast lying still N.N.E. and S.S.W. is 7 Ls. It is remarkable, that between Point Humos and the Bay of Herradura the Sea is so deep, that for 12 Leagues together you have no Soundings, nor any Bottom except about the Mouths of the Rivers, and some sew places under Shore, where Ships come to an anchor under the Shelter of the Points and Bays on the Land-side.

From Point Humos, or Tmos, to the River Maul, the Course is N.N.W. dist. 10 Ls. The River Maul lies in Lat. 35 d. 30 m. This Point is accounted very dangerous, because of several Shoals which lie before it, upon which many Ships have miscarry'd. The River Maul is navigable 3 to 4 Ls up the Country: there is 3 Fa. in the Entrance at low Water Mark. There are 2 great Rocks in the Mouth of the River, but they are seen above Water, and the Channel is good on both sides 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 southerly Wind, but northerly Winds make a foul Shore here.

From the River Maul to Quebrada de Lora is 7 Ls, the Course N.E. Here is a great Break, like that of Lime; and the Coast for some Space lies low and flat with the Sea, being sandy also like the Shore. The Coast here trends away N.E. and S.W. Here the Mountains are cover'd with Trees, which is no where seen upon this Coast northward, till between this Place and La Conception.

From Lora the Coast trends N.E. to Potocalmo, dist. 14 Ls. You may anchor safely within the Headland of Potocalmo, and all along this Shore, especially with a southerly 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 small Island within, where you may ride secure in 25 Fa. clean Ground. This Headland of Potocalmo is in Lat. 34 d. S.

From the Cape or Point of *Potocalmo* to the Headland of *Curaoma* is 18 Ls, the Course still N.E. between these, and about 6 Ls short of *Cape Curaoma*, lies the small Port of *Saltmas*, or the *Salt-Ponds*, where there is a vast quantity of sine Salt, and many Ships use the Place to load it here. The anchoring-place is under a high Rock to the southward. The Land is low, and the Sea slat; and there are several Shoals from the Anchoring-places all along to the River *Rapel*, which

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To come to this Bay, Care must be taken to avoid the Tail of the Shoal I have just spoken of, which stretches out a quarter of a L E.S.E. from what appears at the lowest Ebb, where there is but 3 Fa. Water: To shun it, a Ship drawing near the Land 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 somewhat farther up the Land: that is, the Cape of Estera de Taleaguama, with the western part of the little Hill of Espinosa: and if at the same time the S. Point of Quiriquina be kept in a Line with the W. part of the Island, you are exactly at the end of that Tail of the Sand; and then you draw near to the Houses of Taleaguama, till having closed Quiriquina, behind the Point de la Herradura, you may then come to an Anchor under Shelter from the N.Wind. Care is also to be taken not to come too near Talcaguama, for fear of a Shoal within a Cable's length of the Shore: This is the only Place of fafety whilst the N. Winds prevail; but being entred you may anchor before the Town, N.W. from the Castle, or which is the same thing, S.E. from the S. Point of the Island Quiriquina, closing it with the outward Cape of Talcaguama, or before Irequin. Take care to lie a good quarter of a L from the Shore, for fear of the Rocks. There is every where Conveniency for wooding and watering, and even for building of Ships. In Summer Boats go eafily a Shore; in Winter the Cafe is quite alter'd.

La Conception is certainly the best Place of all this Coast for a Ship to put in at for all things that a Ship's Crew made sick of a long Voyage can want, and for the goodness of Provisions which are to be bought there, and the moderate Price they are

bought at.

From this Island of the Conception, or Quiriquina, to the Cape Herradura, or the Horshoe, is 2 Ls N.E. and S.W. that is, the Mouth of the Bay is so wide, the Cape Herradura being the North Point of the Bay. This Passage lies in S. so that the N. Wind blows right in to the Bay, but as has been said. If you go in this way, you anchor before the Town # of a L

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the receive great preak, take that of Line; and the Coalt for fome Space lies low and flat with the Sea, being fandy also like the Shore The Coast here trends away N.E. and S W. Here the Mountains are cover'd with Trees, which is no where leen upon this Coast northward, till between this Place and La Conception.

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From Lora the Coast trends N.E. to Potocalmo, dist. 14 Ls. You may anchor fafely within the Headland of Potocalaro, and all along this Shore, especially with a southerly 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 small Island within, where you may ride secure in 25 Fa. clean This Headland of Potocalmo is in Lat. 34 d. S.

From the Cape or Point of Potocalmo to the Headland of Curaoma is 18 Ls, the Courie still N.E. between these, and about 6 Ls short of Cape Curaoma, lies the small Port of Salinas, or the Salt-Ponds, where there is a vast quantity of fine Salt, and many Ships use the Place to load it here. 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 Anchoring-places all along to the River Rapel, which Shoals you must be very careful to avoid. Several of them tail off to scaward above two Musketshor, so that you must keep a good Offing on that fide also, to go without them. You must take care, it' you ride at the Salmas, to get under Sail with all speed, if the Wind should come about northerly.

From this Cape Curaoma to Puerto del Valparisso, otherwile Santiago, is 2 Ls, the Courle W.N.W. Here is a good Road within the Point for Ships of any Burden. This Point, and the Islands of Coquimbo, the Headland of Copiago, and Morro Moreno, or the Brown Point, all bear with one another alike, viz. N.E. and S.W.

Two Ls to the fouthward of Cape Curaoma lies a Point called Morro del Obispo, or the Bishops-Headland: this is generally made from the Sea, in order to get to the Windward of Valparisso, to the end that the strong Winds from the S. and S.W. which blow often here, may not put Ships beside the Port, in which case it would be hard to recover their Latitude, without running out too far to Sea.

After doubling Cape Curaoma, 2 Ls to the N.E. by E. appears the Creek of Laguanilla, which with the Cape makes the Port of Valparisso; yet no Ships anchor here, the Bottom being naught.

Upon turning this Point, in order to enter the Harbour of Valparisso, you must range close along a Shoal, which shews it seif within about half a Cable's length of the Shore: This must be done in order to get to windward. That Shoal is a great Ledge of Rocks, whereof one part lies above Water, but 'tis very fafe; for the Spanish Ships have been feen to ride within a Boats length of it in calm Weather, without touching it.

On the other hand, when Ships keep off too far from it. they are often obliged to make feveral Trips to recover the Road, for the Anchoring-place is high up the River; bring the Point of Valparisso to bear N.E. by N from you, the

Where Bertery W.S.W. and Cape Cancon N. by E. and you have then the best of the Anchoring-place, being in 27 Fa. grey oazy Ground, and securid from all Winds.

N. B. If you falute the Fort with 7 Guns, the proud Spanish d haughtily answers you with one, or perhaps none at

Abundance of *Spanish* Coasters whe this Port to load Corn for Calluo and Panama, so that the Harbour is well frequented, and you may have Pilots here for almost any Port on the Coast, especially to the northward. Those Ships generally run in so close to the Town, that they make fast with their Cables on Shore; they are generally made fast to Piles, or great Stones with Rings in them; and yet tho so near the Land, they have 8 to 10 Fa. Water.

This way of making fast ashore is very good here, because every Day during the Summer Months, the Breezes come so regularly about Noon from the S. and S.W. and blow so strong,

that no Anchor will hold.

However, Care must be taken also of a Shoal which lies within a Cable's length of the Shore, near the Battery called the White Castle: On this Shoal there is not above 13 or 14 Foot at low Tide, and the Sea rises upon the Flood but 6 or 7 Foot at most: In all other respects the Bay is safe, and Ships may turn it up or down in from 8 to 50 Fa. and may anchor every where; only take care, in turning to the eastward towards the Siete Hermanas, or Seven Sisters, not to come nearer the Shore than two Cables length and half, opposite to a small running Brook, cross'd by a broad reddish Highway: In that Place there is a Shoal, on which there is no more than 2 ½ Fa.

Another Caution is necessary for this Road, namely, that the Ships generally ride in the Nook of it, which is before the Battery of Castillo Blanco, and where they he chiefly for the Convenience of Trade, as also for Security against Pyrates and Rovers, yet 'tis a bad Road in Winter, because the Winter N. Winds blow right in, and make such a Sea that Ships are often forc'd a-shore in spite of all their Moorings Head and Stern. It is true, the S. Winds are no less violent in Summer, but then they come over Land, and so make no Sea; and if they cause a Ship to drive, they have nothing to do but to put afore it, and go out to Sea, and in the Evening the Wind is always down again.

This Bay is certainly the most frequented of any Port of the whole Coast of Chili, and that by Ships of good Burden besides Coasters; and for this reason the Fortifications are so much increased, for within these 30 years they have built the great Fortress at the Foot of the Mountain to secure the Road.

The City of St. Jago, in English St. James, the Capital of the whole Kingdom of Chili, lies up the Country, dist. from Valparisso 28 Ls says Frezier, and Herrera says 14 Ls: the former seems to be right. The River is not navigable up to the City, but all the Business is transacted at Valparaisso, which is the Sea-Port to St. Jago.

Many Ships come to this Port to lade Hemp, which is brought down the Rivers on strange Flores made of Bladders

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and anchor there. From Papuda to Port de la Liga is 4 Ls. and thence to Port Governador 5 Ls, the Courle N.W. 'tis a clean Harbour, and good Riding, the Ships being fecured by a finall Island in the Mouth of the Harbour.

N. B. Port Governador lies in Lat. 32 d. 12 m.

From Point Governador to Limari is just 20 Ls, being from 32d. 12 m. to 31 d. 10 m. between them is a wild Coast, all fnowy Mountains, and no Harbour, except Choapa, dist. 10 Ls, which is a small Harbour of no Importance.

From Limari to Tanguey is just 10 Ls; this last is in Lat. 30d. 30 m.S. In the Road of Tanguey there is a Headland opposite to a small 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 also, or the Horshoe, as several others on this Coast are; and the Port of Coquimbo is alfo called Serena. The Course from Longuey hither lies due N.

The Bay of Longuey is by some called Tonguey, and by Monsieur Frezier Tonguay; but it is certainly known by a Hill called Sierra del Guanaquero, and by a low Point running out called Lengua de Vacca, the Cows or Neats Tongue, which closes the Bay to the westward.

The Coast, tho indifferently high, and to be seen at 25 to 30 Ls off at Sea, yet makes at first as if it was all drowned; the Mountains of the Cordilleras, which appear over it, being always cover'd with Snow.

When you first make the Bay of Coquimbo from the southward, 'tis generally at 8 Ls dift. In this Course you must 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 Coast, except about 2 or 3 Months in the year, which they call Winter, when the Winds hang about the N. and N.W. Points.

Short of the Entrance into this Bay is the Horshoe Point mention'd above, being the Mouth of a little Creek about 2 Cables length over, and where Boats go in to take fresh Water.

To the Leeward fide appear 3 or 4 Rocks; the outmost, which is the largest, is called Paxaro, or Pajaro Ninno, and is 2 miles N.W. by N. from the fouthermost or Starboard Point of the Main, which closes the Port of Coquimbo, and is call'd by the Spaniards Punta de Tortuga.

To the fouthward of the Rock is a smaller Island, between which and the Main is a good Channel, 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 being 2 ?

Ls wide, clean and without Danger.

The Bay goes in S.E. the fouthermost Point is called Tunta de Tortuga, mention'd above, which the Ships keep as close to as they can for the reasons before, viz. that it is to windward, and if they go large off, it is not eafy to get into the Road, which is under the Lee of the Cape. The 2 Islands mention'd above of Paxaro de Ninno are under this Point to the westward; and therefore 'tis that the Ships venture between is true, the S. Winds are no less violent in Summer, but then they come over Land, and so make no Sea; and if they canse a Ship to drive, they have nothing to do but to put afore it, and go out to Sea, and in the Evening the Wind is always down again.

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Many Ships come to this Port to lade Hemp, which is brought down the Rivers on strange Flotes made of Bladders

and Skins, needless to describe.

N. by E. from Valparaillo, and partly within the Bay, is the Panta de Conception, which opens another small Bay, into which the River Aconcagua empties it self. This River is called also the River Chili, as they tell us, it was formerly the N. Boundary of the Kingdom of Chili; but is not so now. Within this River lies the Town of Conception, where there is a good Road on the Starboard side of the River.

Without this little Bay the Coast stretches to the N.W. to another Punta de la Herradura, which Headland makes the S. Point of the Bay of Quintero. The Bay of Quintero is 2 Ls N. from the River Chili; and the Entrance into Chili is 2 Ls, which with the Rounding the Entrance into Conception

makes the whole 5 Ls to Quintero.

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 must range with the Point, and run in between that and the Shoal. The Town lies on the S. Shore of the River. From the Port of Conception to Port Valparislo, is called 10 Ls, but it cannot be so much.

In the Bay of *Quintero* there lie several Shoals near the S. Point. From those Shoals to the Harbour of *Quintero* it is 2 I.s: the Harbour is deep, and there is good riding with a southerly Wind; but the northerly Winds blow right in, and make a great Sea. Most of the Shoals are to be seen, being dry at low Water; they lie near the S. Point, but there is a fair Channel between, having 12 Fa. Water.

From the Shoals of Quintero the Coast shoots out due N. to Papudo, dist. 5 Ls: The Water is very deep in Papudo, but good holding Ground, and the Entrance is very safe. In Port Liga near the Point there is a Shoal with but 2 Fa. Water upon it; you must give it a good Birth, and run within into 5 Fa.

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To the fouthward of the Rock is a finaller Island, between which and the Main is a good Channel, 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 being 2 \(\frac{1}{2}\)

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The Bay goes in S.E. the fouthermost Point is called Punta de Tortuga, mention'd above, which the Ships keep as close to as they can for the reasons before, viz. that it is to windward, and if they go large off, it is not easy to get into the Road, which is under the Lee of the Cape. The 2 Islands mention'd above of Paxaro de Ninno are under this Point to the westward; and therefore 'tis that the Ships venture between them and the Main, that they may be enough to windward to make into the Road of Tortugas.

It is true, the Rocks are clean, and steep too; so that Ships run within a Boats length of them; and they strive to do it, that they may the easier gain the Road, as above, which is called the Port. Here the Ships ride in 6 to 10 Fa. the bottom black Sand, near a Rock called also the Tortugas, which is about 2 Fa. long, and about 1 Fa. above Water, shap'd like a Tortoise, and from which it takes the Name. Ships are here shelter'd from all Winds, by closing the Punta de Tortuga with the distant Point opposite, called the Point du Noort; so that the Land is seen on all sides, 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 Benesit of its Shelter, tho the Bay is large enough too, and there is Water enough every where, and the Bottom good; but the Ships do not ride so easy or so safe.

If in coming out of this Bay you should happen to be becalm'd, you must be sure not to come to an Auchor near the said Rock Paxaro Ninno in 40 to 45 Fa. because the Bottom is soul and rocky, and will cur your Cables, and you will not

be able to weigh your Anchor by your Buoy Ropes.

The Solide, a French Ship of 50 Guns, lost 2 Anchors

there in that manner, Anno 1712.

The Port is not only convenient for Ships riding at Anchor near the Shore as still as in a Bason; but in case of need Ships of 200 Tun may be careen'd on the *Tortuga* Rock, there being 2 Fa. close by it at the lowest Ebb.

Yet with all those Conveniencies something is wanting, here being neither Wood nor Water; the Water is brackish, and the

Wood only Bushes.

The Town lies opposite to the Road, but there is no Landing nearer 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 2

Sailing Directions for the Coast

Ls from the Town S.S.E. where Boats go in easy, and you

mult walk to the Town by Land.

N.W. from the Bay of Coquimbo, and dist. from the Punta de Tortugas 7 to 8 Ls, are a Cluster of small Islands called Les Pajaros, or the Islands of Birds, the Course N.N.W. and S.S.E. You should be careful to keep off without these Islands, because the Current which always sets to the northward is apt to drive Ships in between those Islands and the Main, that is, from beyond the Point de Theatins, which is the northermost Land of the Bay of Coquimbo. Thele Islands are 6 or 7 in number, and leveral Spanish Ships have perish'd upon them, being hors'd on them by the faid Currents: for which reason, when you go from the South, you must be careful to run some Ls W.N.W. and in time too, that you may get to feaward of them, for the Spanish Pilots shun them as they would a Shoal in They are the more dangerous also, because the Tides upon the Coast are not at all regular, and must be known rather by Experience than by the exactest Observation.

Four Ls N. from these Islands is the Island of Choros; and 5 Ls farther, the Course lying N. by W. is the Port of Guasco. Between them is the Creek, and an Island before it call'd Totoral: It lies midway between a certain high Cape, with a Mountain upon it, call'd Sierra Prieto, and a low Point,

which is the fouthermost Land of the Salt Bay.

From the Bay of Coquimbo to Guasco is 15 Ls, that is, 8 to the Islands of Birds, and 7 beyond, to the Bay. Some Accounts make the distance more by 4 Ls; but we have seve-

ral Charts, which confirm our Account.

The Port of Guasco forms a good Harbour, and you have fase 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 Guasco is in Lat. 28 d. The River lying to the N. of the Town 2 I.s.

From Gnasco due N. lies Cape Tontoral: The Names are so alike, that some Accounts mistake this, which is a Cape, sor Totoral, mention'd above, which is a Creek with an Island: but the difference is evident, the one is 12 Ls to the S. of

Guafco, and the other 15 Ls to the N. of it.

To go into this Port of Guasco, you must anchor right against the River, under a small low Island: 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 see two or three more dry Rocks; there you may anchor, bringing that Point to bear N. by W. from you.

The Harbour of Guafeo 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 Security to the Road. The Hill of Guafeo is very high and thick, and rifes with two Pico's, the northermost is the highest; they are seen many Ls to Sea, and by them you make the Port, for there are no other Hills like them on the

From Cape Tontoral to Copiago is 25 Ls; the Course still lies N. or at most N. by W. Cape Tontoral is situate in Lat.

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Fa. Water in it; and the Englishman run a great Riique in riding there, for had a N. Windsprung up which blows right upon the Shore, he must have run out immediately to the westward, and so have put into Copiapo under the Lee of the Island, or have been forced on Shore and lost.

N.E. by E. from this Road lies the Port of Caldera dist. 2 Ls. 'Tis divided from the Bay de Ingleses, by two Points of Land making a little Sound; between which the Channel goes in E. by S. Here is a good Road behind a rocky Point: You must coast the Starboard or S. Shore within Pistol-shot, that you may be sure to keep to windward; the Road lies on the same Shore, where you have to Fa. good Ground and sectire. Here Ships often lade and unlade for the Town of Copiapo 3 you ride S.E. by E. from the most advanced Point on the S. side, the low N. Point bearing N. by E. from you dist. 3 Ls. Tho the northerly Winds do not blow in but thwart, and that they are not so strong here as in a more southerly Climate, yet when these Winds blow, the Sea goes very high in the Road, and that so as to make Ships ride very uncasy.

This Road would be much more frequented, but that both Wood and Water are exceeding fearer and difficult to be had.

Tho this feems to be the chief Port for the Town of Copiapo, yet it is at least 14 Ls E. into the Country, over the Mountains, and 20 Ls by the ordinary Road, which follows the Course of the River: From the Road of Caldero to the Mouth of the River of Copiapo is 5 Ls by the Coast due N. and S. accounting from the Offing of the Road.

From Copiapo to Coquimbo is 100 Ls within Land, the Country waste and desart without Town or Villages; no wonder then that the Coast is without Harbour and Shipping. This is that prodigious Ridge of Mountains which part Chile from Peru, and which lie in Lat. 24 to 25 d.

But the Sea Coast is not so wild and desolate as the Country within Land. From Copiago to the Bay call'd Port General is 12 Ls: Here is a clean Strand and very good anchoring all the way, the Course N. by E. there is a small Island in the Mouth of the Bay, which adds to the Security of the Ships which ride there, because it breaks off the force of the N.W. Winds, which blow here very strong: The Road is very good, and the Ground a hard Sand; but you will get no good Water there, which is the Case in many other good Harbours on this Coast.

It is much the same at Tuncal, or Juncal, which lies surther N. about 5 Ls: The Harbour is only good with the Wind at S.W. but there is no fresh Water to be got, even for Money, any more than at Port Bettas, 6 Ls still 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 lies exactly in Lat. 25 d. S.

The next Port or Place of Confequence to this is Baia de Neustra Senno, a, or Our Lady's Bay. From Copiapo to this Bay de Neustra Sennora is 30 Ls, the Course all the way N. by E. and S. by W. Here is another Rio Salado, or Salt River; and indeed fresh Water is very rarely to be had in any of these Harbours. The Bay it self is but indifferent riding, the N.W. Winds blowing right in; and as the Land is high and mountainous along the Shore, it sends down strong Gusts and Sauds of Wind, which are very dangerous to Sailors.

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To go into this Port of Guasco, you must anchor right against the River, under a small low Island: 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 see two or three more dry Rocks; there you may anchor, bringing that Point to bear N. by W. from you.

The Harbour of Guasco is well secured 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 Security to the Road. The Hill of Guasco is very high and thick, and rises with two Pico's, the northermost is the highest; they are seen many Ls to Sea, and by them you make the Port, for there are no other Hills like them on the Coast.

From Cape Tontoral to Copiago is 25 Ls; the Course still lies N. or at most N. by W. Cape Tontoral is situate in Lat.

27d. 30 m.

Between them lies the Baia Salada, or Salina, in English, the Sali Bay, dist. from the Cape 10 Ls. There is a good Road in that Bay, and much frequented by coasting Vessels, as well for loading Salt, as for other Business; the anchoring Ground is to the northward; the Point on the opposite Shore bearing S.W. from you, as you ride. 'Tis tolerable sase lying here with the Winds southerly, but the N. Winds blow right in, so that you must be always in a readiness to sail and put out to Sea, or you will be in danger of going a-shore. Here is good fresh Water to be had, and very convenient near the Road.

From this Baia Salada to Copiapo is 10 Ls, the Course N. by E. The Coast between is all fafe with good anchorage, and several little Bays with good shelter, as well against 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 Island, somewhat like the Point of St. Helena in Peru. On the S. side, about a L off Shore, there are two finall Islands, and under them a very good Road. A little to rhe N. of the Town lies the River of the same Name, which comes in open with those Islands. Opposite to this River to seaward, there is a dangerous Shoal stretching E. and W. at a good distance; and as it lies due W. from the Mouth of the River, you must stand out from it to the N.W. till you open the Entrance by the Island, under which you must come to You run in S.E. by S. and S.E. and anchor under the Lee of the N. Point, well fecured as above.

The Point or Head-land call'd Morro de Copiapo lies N. from this Island, dist. about 2 Ls. Behind the Head-land is a little Bay, with a Creek at the S. end of it, call'd Puerto del Ingle-fex, or the Port of the Englishmen; call'd so, it seems, because an English Pirate anchored there formerly, and rode in it some time, watching for Purchase. There is from 30 to 50

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of the Bay, which adds to the Security of the Ships which ride there, because it breaks off the force of the N.W. Winds, which blow here very strong: The Road is very good, and the Ground a hard Sand; but you will get no good Water there, which is the Case in many other good Harbours on this Coast.

It is much the same at Tuncal, or Juncal, which lies sarther N. about 6 Ls: The Harbour is only good with the Wind at S.W. but there is no fresh Water to be got, even for Money, any more than at Port Bettas, 6 Ls still sarther 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 lies exactly in Lat. 25 d. S.

The next Port or Place of Confequence to this is Baia de Neustra Sennora, or Our Lady's Bay. From Copiapo to this Bay de Neustra Sennora is 30 Ls, the Course all the way N. by E. and S. by W. Here is another Rio Salado, or Salt River; and indeed fresh Water is very rarely to be had in any of these Harbours. The Bay it self is but indifferent riding, the N.W. Winds blowing right in; and as the Land is high and mountainous along the Shore, it sends down strong Gusts and Squals of Wind, which are very dangerous to Sailors.

From hence to Cape de George is 20 Ls, the Land also mountainous, the Courle N.N.E. and S.S.W. the Coast of Perus falling off here a little to the E. You may anchor under Morro de George in 25 Fa. all secure, no Dangers but what are visible. The Bay is in Lat. 24 d. 30 m. If it be clear Weather, you may see Cape Morreno from the Mountains over the Bay of Our Lady: You should lie at anchor S. of the Rock, about a Mile from the Shore.

From Cape George the Course lies N.E. to Cape Morrena, just under the southern Tropick, being it Lat. 23 d. 45 m. S. dist. 15 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, because it blows right on the Shore, and makes a great Sea in the Road.

From the N. Point of the Bay of Morrenas to Messillones, or Muscle Bay, is 8 Ls, the Course N. by E. and S. by W. Cape Morrena is high Land. On the N.E. side is a good Road, near the small Island which lies before it. Here is also 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 sometimes terrible Flaws of Wind, which come off from the Mountains within the Land.

From the Bay of Messillones to Atacama is 5 Ls, the Course between lies N. by E. and S. by W. There is a Hill like a Sugar-loaf on the Point, and on the N. side another somewhat less. The Bay of Messillones is deep, the Anchoring place to the eastward; but the Entrance N. and S. On the S. side it is deep, and you have no Bottom, but at the Entrance or Anchoring-place it is moderate, and you may ride in 15 Fa. Water clean Ground, and well secured from most Winds. It is to be observed, that the Seamen call all the Opening from Cape to Cape the Baia de Acatama, or Atacama; so that the Muscle

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Bay is a Bay within a Bay, being a finall Harbour at the Bottom of the other: But this makes the latter fafer riding, for in the great Bay the W. and N.W. Winds blow right in, and bring in a tumbling Sea, fo that you might be in danger of foundering at an Anchor. From the N. Point of the Bay of Atacama, as thus extended, to the Morro Morena S. is 20 Ls, being just from Lat. 22 d. to Lat. 23 d. S.

N. B. The Town of Atacama, from whence this Bay takes its Name. is within the Land many Ls; but the Port, which by mistake we call Atacama, is properly call'd Cobija, and is known to the Spaniards by that Name.

The Harbour and Bay, as above, is known by the Morro Morena, which begins to Ls to windward, that is, to the fouthward, and rifes gradually till it comes directly over the Entrance into the Creek or Harbour of Cobija, and from thence floaps again to the northward; fo that the Pike of the Hill is your Mark at Sea to make the Port by, it being the highest Land of all the Coast.

The Harbour of Cobija lies about 3 quarters of a L in, very fecure: "I's frequented by European Ships for private Trade, and by Spanish Ships, but chiefly for carrying the Treasure which is brought hither from the Mines at Guarco, Lipes, &c. which lie nearest to it.

From hence to Paguifa, or Paguifa, is 10 Ls N. that is, to the Islands call'd the Algodonales 8 Ls, (where you may get fresh Water, but at Cobija it is brackish and unwholesom;) and from the Algodonales to Paguifa 2 Ls.

Due N. from Paguifa, dist. 5 Ls, lies the Rio de Lora, or de Loa, in Lat. 21 d. 40 m. Here also you may have good fresh Water, tho with some difficulty; it lies behind a Point.

If you would water at Paguifa, you should anchor before a Head-land which shoots out N.W. into a Point, and is call'd Ilaguey or Jazuey, from whence the Port is call'd by the Spaniands, Haguey de Paguifa, or the Rills of Water at Paguifa. The Point is known by large white Spots on the Precipice, or rising of the Land; there you will see a high large Tree before the Jazuey. or Watering-place; that Point is the highest Land on that part of the Coast. Over it is a Hill yet higher, which makes at Sea like three or four Hills far alunder, and is over-grown with Shurbs and Bushes looking always green: The Water here is bad, the Coast very rough and sleep, so that you must keep off at a good distance: You have also no good Soundings but at 2 Ls from the Shore, and no Bottom.

From Cobija in the Bay of Atacama to the Haguey de Paguifa, or the Watering-Place of Paguifa, is 15 Ls, all a high Coast, mountainous and rocky; the Land trending N.N.E. and S.S.W. tho soon after going off more to N.E. by N. and then again to due N.

From the Rio de Lora the Land trends due N. to Pica, passing in the Midway the Island of Gouano, the Land high and steep, and the dist. from Lora to Pica 12 Ls. On the

Directions for the Coasts of Chili and Peru.

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run in with the Shore by those Marks, no other Land making like it.

These broken Lands begin at Tarapaca, from whence to Pisagna is 6 Ls N. and S. From Pisagna to the next Gap.or Opening at Camarones is 8 Ls. All the Coast is high Land, and lies N. and S. The broken Gap of Pisagna makes at Sea like a Bay, and when bearing E. from you, seems to be closed up with the Gap of Camarones.

N. or N. by W. to Victor O Colpa, dift. 7 L. This is the first of the broken Hills to windward: Those broken Lands lie about 5 Ls in length; they have to the N. side almost to the Shore, red Hillocks and some Ridges, the latter white as Chalk. Between these is the Head-land of Arequipa, call'd by our

Sailors Iquique.

The Course lies N by W. from these 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 steep Land with white Spots in it, in fight with the Land to windward of Cape de Sama and Guiaca, you are then directly off of the Bay, or rather a little entred into it. If you would anchor there, observe a small Island, which you shall see under Shore, and bring them on with the Ware-houses which lie also near the Strand; there you shall have 8 to 10 Fa. Water where you please, and may anchor at discretion. You must be sure when you ride here, to moor with one Anchor right a stern, because the Land-Breezes blow so strong, that you will be else in danger of tailing a-shore.

Coming from the Sea, 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 Leeward, and will fee two other Hills as white as if they were covered with Snow.

Upon the same Coast, and before you come to Arica, is the Cape, or Point, or Break, call'd Camerones, mention'd already. When you come within about a L of this Break, you will see the Head-land of Arica begin to shew it self; it makes at a distance like an Island, because it is much lower than the windward part of the Coast; but when you are within 3 or 4 Ls of it, you will see another little Island very steep and high, which hes right before it, and looks only like a Rock standing out of the Sea: By this you will infallibly know the Coast, because 'tis all a low Coast 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 great Numbers, and which Dung is to valuable, that Ships come to that Road to load with it: Hence the Island adjoining is call'd Camaron, but its right Name is Guano.

Entering the Road of Arica, Ships may Coast the Island

yet high, which makes at Sea like three or four Hills far afunder, and is over-grown with Shurbs and Bushes looking always green: The Water here is bad, the Coast very rough and steep, so that you must keep off at a good distance: You have also no good Soundings but at 2 Ls from the Shore, and no Bottom.

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From Cobija in the Bay of Atacama to the Haguey de Paguifa, or the Watering-Place of Paguifa, is 15 Ls, all a high Coast, mountainous and rocky; the Land trending N.N.E. and S.S.W. tho soon after going off more to N.E. by N. and then

again to due N.

From the Rio de Lora the Land trends due N. to Pica, passing in the Midway the Island of Gouano, the Land high and steep, and the dist. from Lora to Pica 12 Ls. On the Shore there are several Ridges of Rocks; 'tis a bold Coast, and you may anchor under the white Craggs which appear just upon the Shore: Where you see these Craggs lower and slatter than the rest of the Land, there you may observe the Harbour goes in; and you may know where the Mouth of the River lies by the same Mark. The best of the Road is about a quarter of a Mile to windward of the Opening, near a small Parcel of Rocks which shelter you from the northerly Winds and the Breach of the Sea, which goes high upon the Shore: When you come to an anchor, let those Rocks lie right a-head of you.

In passing from Cobija towards the Rio de Lora, you will see a small Island call'd Pavillion, because it looks like a Tent, the upper part black, the lower white. Behind the Island on the Main is a Creek, where Boats go in for fresh Water, which

is still very scarce on all this Coast.

N. from the Island Pavillion is the Head-land of Tarapaca, or, as our Scamen corruptly call it, Carapoucha, dist. from Pica 5 Ls, the Course due N. The Cape is very high, but under the Pitch of it is the Island Iquique; this Place goes in like two Harbours, over which the Land being flat without and hilly within, it makes at Sea like a Spaniard's Hat, which way soever you come towards it: Under the Shore there lies a small Island: The Coast is bold, and you may anchor almost any where in moderate Weather; you may also anchor within the Island in 7 Fa, well secured from northerly or southerly Winds.

From the Morro Tarapaca to Arica the Coast trends N.N.W. dist. from the River Hicacos 25 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 Coast: As you approach this Coast, you will see three deep Gaps in the Hills next the Shore, where the Land appears thro' in black Spots, and at every one of those Gaps comes in a River.

If you come out of the Sea, and have not had a good Obfervation, or if you have been horied up to the northward by the Currents, as often happens on this Coast, you may boldly r four Hills far thes looking alift very rough distance: You the Shore, and

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This Head-land, on that fide next the Sea, is all white with the Dung of Cormorants, which are there in great Numbers, and which Dung is to valuable, that Ships come to that Road to load with it: Hence the Island adjoining is call'd Camaron, but its right Name is Guano.

Entering the Road of Arica, Ships may Coast the Island Guano, which is at the Foot of the Head land, or within a Cable's length of it, and may anchor N. by E. from it, the Steeple of San Juan de Dios bearing N.W. from them. Steeple is to be diffinguish'd by its height from any Buildings, not in the Town only, but on the whole Coall.

The Road there is very good, and you may ride in 9 Fa. Water, the Bottom a tough Oaze, and out of danger; tho there are Rocks under Water too, which in feveral parts of the Road cut the Ships Cables, and hold their Anchors, to as they can never be got up; but those Rocks lie too deep to do a Ship's Bottom any hurt. This Island Guano breaks off 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 ealy and fafe,

Ships water here by digging in the Sand on the Tide of Ebb. where, if they dig but half a Fathom, they find very fweet and good Water, which keeps well at Sea; but if they dig deeper,

tis brackish, and after that quite falt.

The Shore being flat, and full of great Stones broken off from the impending Craggs, the Sea is always rough, beating and breaking upon those Stones, so that no Boats can come near to land any Goods, or to load any thing off, but they are obliged to run into some little Creeks or Guts, of which there are two or three near the Head land: The best is that at the very Foot of the Point, where however they must pass between two high Rocks, and coast along the biggest, which is on the Starboard-fide among great Stones, which threaten to flave the Boats to pieces. This Rock is dry at low Water, and at high Water you may differn it, so as to know where it is. When you are pass'd it, you turn short to the Larboard-side, iteering directly to the first Houses: And thus you enter the great Creek, which at best is to thoal, that even the Boats are obliged to cover their Keels with fron to fave them from rubbing against the Rocks.

S.W. from the Port was a Village within the Head-land, on which there was formerly a Battery of Guns to defend the Passage to the Town by these Creeks, which were once at-

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Sailing Directions for the

tempted by the English Buccaneers under Dampier, and they were beaten off by the Shot from this Battery; but 'tis now neglected and in Ruins. N. B. The Variation of the Compass here, is 8 d. to the eastward.

Tho the Road here is but inconvenient at best, yet 'tis much frequented, it being the nearest Port to the Mountains of Potosi and other rich Mines, and a noted place for the loading of Rock-Salt, which is dug out of the Mountains,

and thipp'd off here for all the western Coast.

Ships that ride in this Harbour are often detained by long Calms, and by the strength of the Current, which always sets towards the Inlet of Quiaca; which makes it sometimes difficult to get out of the Road, because the Land-Breeze, which holds always from Midnight till near Noon, is succeeded by the Sea-Breeze which blows from the S.W. The latter comes too soon to give them time to double the Morro de Sama, or Head-land of Sama, which lies W.N.W. from that of Arici, and the more, because the Tides of Flood sensibly come from above: It is on account of this Difficulty in turning out, that in some Charts it is call the Devil's Foreland.

To matter this Difficulty, if you would put to Sea from the Road of Arica, you must endeavour to take the Advantage of the Land-Breeze to carry you out as far as you can, that you may not be driven back into the Road by the

Current in a Calin.

But if you are driven back, or in dauger of it, the only Remedy is to come to an anchor about a L to the fouthward of Guiaca, where you may ride in 5 to 6 Fa. the option a greenth. Oaze of an Olive colour, and in some places mix'd

with Sand; 'tis a good Road and well fecur'd.

This Harbour of Guerca lies 15 Ls N.N.E. from Arica, thus: From Arica to Juan de Diaz 5 Ls, and thence to Guiaca 5 Ls, and thence to the Alorro de Sama 2 Ls; fo that from Arica to the Head land of Sama is 12 Ls, the Courfe N.W. by W. and S E. by E. Between them is a great Bay, all low Land, and a fair landy Strand, as far as Guerca; there the Landriles, and the Shore is fleep, which makes the Road good. The anchoring-place is half a L to the windward of the River of Nama; here you may wood and water with the greatest Convenience of any Port or Harbour on all this Coast; but there runs a great Surge of the Sea both in the Road and in all the Bay.

From the Rio de Sama the Coast trends N.W. to the Rio de Its or Hilo, the Course N.W. by W. and S.E. by S. the dist is 8 Ls; in the midway is a noted Mountain, known upon all the Coast for a good Sca-Mark, and call'd Acaguna. The River of The is navigable, the Entrance good, and the Channel deep. The Town of Hilo lies a quarter of a L to windward of the River in Lat. 18 d. 4 m. In this River also you

may wood and water with all possible Advantage.

When you make this Head-land of Hilo from the seaward, and especially bearing to windward, you will see a mountainous Country, which the Spaniards call Loma Quemada, or the Burnt Reige; at the end it makes like the Mouth of a River, being flat and low, but the high Land begins to rise again towards the SE

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which you will fee upon the Coast half a L S. of the Passage, you will then go clear of the Shoal.

Duc S. from the Town, and S.E. from the Road, there is a Creek goes in at fo narrow an Entrance, that like a Dock 'tis

only fit to admit one Boat at a time.

From the Port of Hilo to Xuly or Chuly, is 2 Ls; the Land here trends away much more to the westward than before, the Course therefore is N.W. by N. Between them is the Rio Tomba and the Terba Buena: You may anchor against the Rio Tomba in 20 Fa. clean Ground; the Coast is all bold, and the Land high, only that there is a Gap of low Land about a L long, by which the place is to be known off at Sea.

N.W. from Xuly in 17 d. 30 m. lies the little Point of Tlay, or Ilay, dist. from Xuly 3 Ls. This Place and Chuly were formerly the principal Ports for the City of Arequipa, and for all the Coast of Penasco, but 'tis since chang'd to the Creek of Quilca: You may know the Port, as you come to it from Xuly, by this certain Mark, viz that you will see the Volcano of Arequipa lying from the Port N.E. 6 Ls off in the Country. From this little Port of Xuly to the Creek of Quilca the Course is N.W. and S.E. dist. 10 Ls. This Harbour is now the principal Port of Arequipa; you may anchor in the Bay of Ylay, behind the Rocks call'd the Fenelous de Tlay; 'tis good riding, only that the Water is too deep, being not less than 40 to 50 Fa. but those Rocks are all bold, and above Water, also they are the Marks to know the Port by.

The next Port to this of Quilea is Ocona, the Course N.W. a bold Coast, dist. It Ls. In the Harbour of Quilea you may anchor at about a quarter of a L from the Island, just when you see the Cross: The Island is just 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 slows 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 better Weather, or to go up with the Flood: You lie there in 20 Fa. clean Ground, bringing the Strand of Camana open with the Head of your Ship; then the Ground is all sair and clean every way. You will see the Town of Camana over the Strand as you sail 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 Ocona and Attico (two finall Head-lands on the Coast) there appears a great broken Gap reaching along the River's Bank close to the Water Edge, and running out to the Sea about 2 Musketshot from the Gap; you may be supply'd with very good Water there. Near the Broken Gap lie two great Rocks, called by the Spaniards Los Piscaderes, or the Fishers.

From this Port of Ocona the Course lies N.W. to Actico, dist. 14 Ls. If you come from Cape Arequipa, you will see to windward a large Strand, being a fair landy Shore reaching as far as Puerta Chala; the Land within is very high and mountainous: Attico lies in Lat. 16 d. 30 m.

From Cape Attico 'tis also 14 Ls to Cape Arequipa; ar i from Arequipa to Port Lomo is 8 Ls. Under the Head-land of Arequipa lie some sharp black Rocks, which must be avoided. This Harbour is frequented much by trading Barks and Coast-

choring-place is half a L to the windward of the River of Nama; here you may wood and water with the greatest Convenience of any Port or Harbour on all this Coast; but there runs a great Surge of the Sea both in the Road and in all the Bay.

From the Rio de Sama the Coast trends N.W. to the Rio de 7th or Hile, the Course N.W. by W. and S.E by S. the dist. is 8 Ls; in the midway is a noted Mountain, known upon all the Coast for a good Sea-Mark, and call'd Acaguna. The River of 7 to is navigable, the Entrance good, and the Channel deep. The Town of Hilo lies a quarter of a L to windward of the River in Lat 18 d. 4 m. In this River also you may wood and water with all possible Advantage.

When you make this Head-land of Hilo from the feaward, and especially bearing to windward, you will fee a mountainous Country, which the Spaniards call Loma Quemada, or the Burnt R. ige; at the end it makes hie the Mouth of a River, being that and low, but the high Land begins to rife again to-

wards the S.E.

In the Way between Sama and Hilo you fee again the Hill mention'd above, call'd Acaguna, which will be your Guide en many Occasions. There goes a great Sea upon all this Coast, and also in the River Hilo it felf, the S.W. Winds blowing right in: Yet there is good landing in the Port or Town it self, as well as in the River, which is particularly occasion'd by the Point of 7% running out so very far into the Sea: This Point however is low, and you must be careful not to come too near it, because of the Indrast; at the Extremity of this Point also there is a little Island, which at a distance makes like four or five Rocks. The off-side of the Island is soul, so that you must on all accounts keep out at Sea till you are clear of the Point.

It you would come to an anchor in the Port of 7%, you must bring the Break in the highest Land, which you will see to landward, to bear E. tilt you see the Valley within the Hills beyond the Break, appearing thro' it; when the Break opens tair before you, them you are in the best of the Road, and may let go your Anchor with safety.

N. B. The Point of Hilo is just in Lat. 18 d. large.

The Road is no more here than a strait Coast, and you anchor in the open Sea, so that Shipsin the Road are seen at a great distance both up and down; from whence it follows that here must go a great Sea, let the Wind blow which way it will. In the best of the Road you anchor in 12 to 15 Fa. fine sandy Bottom, somewhat oazy, and to the northward of the little Island mention'd before to be under the Point, which is also call'd Color. The end of this Point is a low Rock, shewing very low at a distance, but rising higher as you come nearer to it, which is a little unusual.

In coasting along the first Rocks it is to be observed there is a Shoal under Water, and which lies N.W. from another Shoal which is dry, and to be seen. To avoid this sunk Shoal, keep the Rock that advances farthest out, on a red piece of Land,

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there is r Shoal l, keep Land, with the Head of your Ship; then the Ground is all fair and clean every way. You will fee the Town of Camana over the Strand as you fail 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 Ocona and Attico (two finall Head-lands on the Coast) there appears a great broken Gap reaching along the River's Bank close to the Water Edge, and running out to the Sea about 2 Musketshot from the Gap; you may be supply'd with very good Water there. Near the Broken Gap lie two great Rocks, called by the Spaniards Los Piscadores, or the Fishers.

From this Port of Ocona the Course lies N.W. to Actico, dist. 14 Ls. If you come from Cape Arequipa, you will see to windward a large Strand, being a fair landy Shore reaching as far as Puerta Chala; the Land within is very high and mountainous: Actico lies in Lat. 16 d. 30 m.

From Cape Attico 'tis also 14 Ls to Cape Areguipa; and from Areguipa to Port Lomo is 8 Ls. Under the Head-land of Areguipa lie some sharp black Rocks, which must be avoided. This Harbour is frequented much by trading Barks and Coasters, but not by Ships of Burden. From Port Acari, which some also call Port de Loma, 'tis 8 Ls to Port St. Juan, the Course N.W. as before.

N. B. All the Coast on this side, from Arica quite up to Loma and beyond it, lies N.W. and S.E. or N.W. by W. and S.E. by E. The Land between Port de Loma and St. John is low and slat, but within Land the Mountains rise above it. This Port is a very good Retreat for Shipping, which are bound farther either to the N. or S. and the Ships going and coming between Arica and Arequipa to the southward, and from the Port of Callao to the northward, often put in here, for it is an excellent Harbour; but it is not frequented on its own Account, the Country producing nothing to load Ships with.

From the Morro de Acari, which is to the N. of Port Acari, the Coast goes on N.W. to Port St. John, dist. 8 Ls. and in Lat. 15 d. 20 m. S. In the Run you have neither Port nor Creek, nor any Place to get Wood or Water. N from St. John is Port St. Nicholas. About a L from the Head-land of St. Nicholas to windward, you will see a deep Gap in the Hills on Shore, thro' which comes the River Masea: Look then to windward farther within the Country, you will see 2 broken Hillocks; that most to windward is the least: also coming in from the Sea, the Land beyond those Hillocks will appear in high Ridges of Mountains; on the N.W. side they appear steep, on the S.W. side lower, and sloap away towards the Sea; at the Point they make in the Shape of a Galley. By these Marks you will know this Port.

Here also there is neither Wood nor Water, but 'tis a much fafer Harbour than that of St. John. If you would go in, give the windward Point a Birth, for there runs off a great Shoal from it, which shoots far into the Channel, and into the Sea.

Between

Between St. Nicholas and St. John for 2 Ls together the Land is flat and low, and over it are some reddish Hillocks, by which that small Part of the Coast is to be known at Sea.

From Port St. Nicholas to Port Cavalla, or the Horse Harbour, the Course is N.N.W. and S.S.E. dist. 6 Ls; 'tis high Land almost all the way; it makes in Ridges, which run back eastward, joyning to the Mountains of the Andes. Midway in the Course is a large Bay, in which among the Ridges you will tee a plain Mountain, which they called Messa, or Alensa de Neustra Senora Santa Maria, or Our Lady's Table. There the Land lies a little low, till you come to the River Ica.

This Bay is accounted very dangerous, because subject to Calms in deep Water, and because there comes in a tumbling Sea upon every ordinary Gale of Wind from without. If you would harbour in the *Port de Cavalla*, you must be sure to go to windward, your Boat out at your Stern, your Yards and Topmasts struck, and particularly your Anchor a Pick ready to let go: Then run in under a Sprittail and a Mizen.

Forget not also to observe, that just off of the Head going in, there are some dangerous Rocks under Water; and to shew you where they lie, there is also one stands out above Water, called the *Fraily*, or the *Fryar*. When you are past these Difficulties, and are got fairly in, you have an excellent Harbour, where you ride perfectly secure in 8 to 9 Fa. Water.

N.W. by N. from Porto Cavalla lies Morro Quemada, or the Burnt Head-land; the Course is N.N.W. and N.W. dist. about 12 Ls, viz. to Point Olleros N.N.W. 6 Ls, and from Point Olleros to Morro Queniada 6 Ls N.W. To keep clear of the dangerous Bay above-named, you must take care while you are off at Sea to make the Land far enough to windward: Observe also that the Port of Barca lies at the end of all the Rocks southward, where the Strand begins; if you would ride there, you must moor with two Anchors a head, and your Kedge Anchor aftern.

From Point Olieros to Morro Quemada is 6 Ls, the Land high and level on the top, and the Courie full N.W. Near Point Olieros, there are fome Rocks to Leeward of the Head-land, and almost close to the Main, which look like little Islands, you may go in to Leeward of them, and anchor in a little Bay under the Hills; 'tis a good Harbour in case of Squals from the Mountains, or of strong Currents setting downwards from the Sea, but it is not much frequented, because here is no Business.

Morro Quemada lies in Lat. 14d. 30m. 'tis a high Head-land, but floaps down behind, and within the Country 'tis all flat and low: The Cape is fo very high, that 'tis generally cover'd with Clouds. There is good anchoring far within the Cape, but 'tis fometimes difficult getting in, because of the Flaws and Gusts of Wind which come off the Cape, and from the Mountains about it.

If you are refolv'd to go in, you must range the Rocks which you will see under the Cape; and keeping very near them, for they are bold and sleep too, use the utmost Caution as you go on; first hand all your Sails, only keep your force

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However, a Ship may go thro' the Passage within the Isle of Lobos, and cleape, tho it be dangerous, for there is Water enough: the Hazard is of touching upon the Rocks, for in coming out to the northward there is a Ledge of them, as is said above, which reaches more than a third part over towards the Main; and to the northward of that Ledge of Rocks there is a smooth Bank of Sand, which forms as it were a Creek between it and the Island, where the Sea is so still, being kept off by that Sand, that it makes a good Road, and a Ship may anchor in 7 to 8 Fa. Water, and if there were occasion, might venture to careen in it, but you must found it well before you go in.

From this Island de Lohos to Morro de Vejas, or the old Head-land, is but half a L. On the N.N.E. side of this Morro de Vejas, there is a good Road, where Ships anchor in 12 to 15 Fa. but if you would go in there, you should found it with your Boat before you venture by the Point; the S.E. side of the Head makes like a Galley, but as you run by it, the Land joins again, except a Gut of about 8 Fa. broad, and then another Island shoots with it, so that it all appears as if it were one main Land. From the Morro Quemada to the Morro de Vejas the Land salls in to the callward, making a large Bay,

which reaches all the way between them.

N.N.W. from the Isle of Lobo thes Cape Cangallin, or Gallan, tam'd for being a blustering stormy Cape, which makes some Spaniards call it Cabo des los Diabolos, the Cape of Devils. Between this and the Morro de Vejos hes the Island of Carette, dist. 2 Ls, the Course due N. and S. The Morro de Vejos makes at Sea like a high Island, but to the southward it is so low 'tis seen but a little way. On the top of the high part there is a Chist or Opening in the Land, which looks when you come open with it, to be very large and deep as it some River came into the Sea there, but there is no such thing.

Tho Cape Canzallan be to flormy, by reaton of the Gufts and Squals which come down from the Mountains, yet on the S. fide there is a very good Harbour, and well frequented by the

coasting Ships from Panima and Lima.

If you would go in here, coming out of the Sea, or from the N westward, you must furl all your Sails before you come to that narrow Passage, which is just before the Entrance of the Harbour; then run in with your Fore sail very low set. When you are pass the Narrow, the Opening appears wide enough, and you may go boldly in, and anchor at Discretion. In the Passage you have always hard Gales and Gusts; but when it opens, the Weather also sensibly abates, the Narrow of the Mountains apparently drawing the Winds like a Torrent from the higher Ground beyond them.

When the Breeze is over, and it proves calm, as is ufinal every day at the proper hours. Ships ride easy enough; but otherwife the Flaws and Gusts are sometimes to violent even in the Harbour, that Ships are often blown quite out, and fore'd to run as far as the Bay of Paraea for Shelter; then when the Weather is settled, they come back again to Canzallan to take in their Loading.

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and almost core to the Main, which look like little Islands, you may go in to Leeward of them, and anchor in a little Bay under the Hills; 'tis a good Harbour in case of Squals from the Mountains, or of strong Currents setting downwards from the Sea, but it is not much frequented, because here is no Business.

Morro Quemada lies in Lat. 14d. 30m. 'tis a high Head-land, but floaps down behind, and within the Country 'tis all flat and low: The Cape is so very high, that 'tis generally cover'd with Clouds. There is good anchoring far within the Cape, but 'tis sometimes difficult getting in, because of the Flaws and Gusts of Wind which come off the Cape, and from the Mountains about it.

If you are refolv'd to go in, you must range the Rocks which you will see under the Cape; and keeping very near them, for they are bold and steep too, use the utmost Caution as you go on: first hand all your Sails, only keep your Fore Topsail half Mast up; then be sure to have all your Anchors ready to let go: observe allo, whenever you let sall an Anchor, as soon as it touches Ground, give the Ship a Sheer, and let go another for Security, else the Flaws taking your Ship, the first Anchor will come home, and you may be upon the Rocks before your second Anchor can bring you up.

Having taken these Precautions, watch the Winds slacking, and go farther in: when you are quite in, 'tis a fine easy Road, and you may anchor against the Strand in what Water you please, but you must moor with an Elbow for the better Riding in the propercit Posture and Place to come out. It would be much easier going in to this Harbour, if you would contrive it so as to be before the Place early before the Sea-breeze sets in.

N. B. When you come out, you may run between the Island and the Main without any Danger at all.

N. B. You can get neither Wood nor Water in this Road. N.W. From the Morro Quemada, and dift. 1 - L lies the Island of Lobos, or of Wolves; 'tis a small Island about ! of a L long, stretching NW and S.E the Land indifferent high. There are several flat low Rocks between the Island and the Main, which stretch out towards the Head-land half over the Channel, leaving the Passage between very narrow and dangerous, tho many Ships have past it by Mistake, thinking it had been the Channel between the Island of St. Gallan and the Head-land of Paraca: But it must be a very great Neglect, for they are easy to be known alunder. The Island of Lobos is foul and Rocks lie all round it, with one which is called the Breaker, and stands up like a Sugar-Loaf above Water; whereas the Isle St. Gallan is clean and bold, no Rocks about it, and the Channel between much broader: Besides, the Land on the Main differs extremely, for that of Paraca is of an equal height, whereas that of Morro Quemada comes down floaping from the N. side, from a vast high Mountain to the Sea side,

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in their Loading.

Within the Harbour of Cangallan you have all deep Water; the Point it felf is an Island, the Land as above exceeding high, broken and uneven; and on the N. fide it is all foul and rocky.

N. B. The Island 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 Cangallan.

Opposite to this Island on the Main is the Head-land of Morro Paraca, which is very high, and feen far out at Sea. Within the Island on the E. side is all deep Water, but on the N. side the Shore is cover'd with Rocks great and finall: on the S. fide there are also some Rocks, but smaller. Between the Island and the Main there's a good deep Channel, thro' which the Chili Ships pass to go into the Harbour of Pisco, and also into that of Cangallan; the Passage is fair and clean except on the S.W. fide: There is some Danger of the Rocks, but as the Channel is good and above 2 miles broad, Strangers need only keep in the Fair Way. From the Island Carretta to Cangallan is ; Ls, the Course N.W. and S.E. Carretta is a small low Island, round in form, a good Coast, but no Harbour, and lies about 4 of a L dift. from the Main, and from Morro de Vejas about 2 Ls N. The Island of St. Gallan is dift. from Morro Quemada and S. o Ls.

N.E. from St. Gallan is the famous Harbour of Pifco, and the Bay of Paraca. You may anchor all the way upon this Coast with great safety, 'tis clean Ground from the Island of Chinca to Pisco, and even from Morro Quemada, except as above. In palling thro' the Channel of St. Gallan, between that and the Main of Paraca, you must go rather on the fide of the Main than of the Island, viz. within of a L from the Headland of Paraca, there being a Shoal which lies S.S.E.

from the Island half a L dift.

As you fail thro' this Paffage on the fide of the Main, you go within 2 Cables length of a finall Creek, and a Road in the Mouth of it, called Enfenado del Vejo, or Old Man's Bay:

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Sailing Directions for the Co

here is good anchoring in 12 Fa. well shelter'd from northerly and casterly Winds, and the Island which lies off to the westward breaks off the Sea; 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 Passage, after you have stood due N. to get thro', and be clear of the Island as well as of the Head-land of Paraca, you stand N.E. to the Road of Pisco; but if you come out of the Sea, you stand in E. by N. between the Islands of Chinca and those of Ballesta or Ballata.

The Islands of *Chinea* lie due W. from the Anchoring-place before the Town, dist. about 3 Ls. In order to anchor in the best of the Road here, bring the Islands of *Chinea* to bear N.W. from you, the Island *La Ballesta* S.W. and *St. Gallan* to bear

allo S.W. over it.

All along this Bay, which lies between Chinea and Pifeo, you may ply to windward which way you pleafe. From the Port of Chinea to the Town of Pifeo is 6 Ls, the Town standing up the Country within the Land a good way. The chief Mark for anchoring in this Harbour is as above to bring the Islands of Chinea to bear N.W. The Coast is all clear of Shoals, and the Ground clean over the whole Harbour, except about a L and half just before the Town, where the Channel has thrown up some Shoals, when the Winter Freshes come strong down from the Mountains.

Yet the Road of Pifeo is large enough to receive a whole Navy Royal, and is perfectly lafe: The northerly Winds, which farther fouthward were reckon'd dangerous, feldom blow in this Latitude, and when they do are generally moderate, and the Road is expos'd to no other; the Islands which lie off, breaking off the Sea from all other Points, are a Shelter in case of S.W. or S.E. Winds. If the Ships want to wood and water, they go half a L to the northward of the Town: If they want to sit and trim, wash and tallow, or even to careen, they go to the southward into the Bay of Paraca, at the Bottom of which is a clean Strand, a sandy Oaz, and no rough

Ships may anchor over all the Bay in 12 to 15 Fa. well shelter'd, in smooth Water, and a good sandy Bottom. N.W. from La Bodoga in the Bay of Paraca, there is a very good Road: There are some Houses on the Shore, built on purpose for the Conveniency of loading and unloading Ships, and many Ships chuse to anchor there, tho it be 2 Ls from the Town, rather than go up to the Road, because the Sea runs so high at the Landing-place before the Town, that it is almost impossible to land there, especially in the day time; sometimes in the Morning it may be done with the help of a good Hawser, or small Cable and Anchor, but it is always with Trouble, and not without Danger, at least of staving the Boats.

Ships wood and water here with great Conveniency, and are cafily victuall'd on occasion for the longest Voyages on that side of the World; so that the Road is always full of Ships

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Canette lies in Lat. 13 d. 20 m. From thence to the Isle of Asia is 7 Ls, from the Mala is 3 Ls, from Mela to Chika 4 Ls.

Midway between Asia and Chilea is a Bay on the Land, within which there are 3 or 4 Mountains, by which you will know that Place at a distance. The Island of Asia appears white at a distance, and there are some white Rocks within it. All the Coast from Canette to Chilea is a bold Shore, the Land next the Sea low and pleasant; but the Mountains of the Cordilleras or Ander shew themselves over all behind; so that when you make the Shore, you scarce see the low Land between those Mountains and the Sea.

You may know this Port, by observing a great Cleft in the Mountains, being an Opening thro' which the River Circa makes its way to the Sea: Also from the Coast there sloaps down another Hill towards the S.E. which runs to the Headland or Point, and joins as it were just over the Town of Canette. The Head-land is not very high, but it shoals out a great way into the Sea.

This Harbour of Chilea is in proportion to its bigness, the best in all the Scuth-Sea, except that the Entrance is too narrow, yet even this causes the Harbour when one is in, to be as still as a Millpond. It is indeed to small, that it will receive but 7 or 8 Ships at a time. To go in is very easy; you must first drop an Anchor in the Mouth of the Entrance, and then carry out a Warp, and warp in behind the small Island which makes the Passage, then moor where you please, 'tis every where good.

From Chilea to the Headland of Callao is 8 Ls, the Course N. by W. and S. by E. thus; From Chilea to the Farellons, or the Rocks of Pachacama, 3 Ls, from these Rocks to Morre Solar 2 Ls, from the Island of Callao to the Morro Solar 2 Ls

To the Port of Callao before Lima from the Bay of Paraca, S. of Pifeo, the Course is N.W. and N.W. by N. dist. 40 Ls. N. B. The Port of Callao and the Island of Callao are disserted rent Places, and the dist. one from the other 5 Ls N.E. and

S.W. From the Harbour of Chilea to the Port of Callao the Course is N.N.W. viz. to the 2 great Rocks, called as above the Rocks of Pachacama; these are several small Islands or Rocks rather. On the S. fide of them is a low Saddle Point, by which the Place is known. From hence the Coast stretches 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 Island, stretching N.W. and S.E. called L' Isle de St. Lawrence; at the S.E. end of which, separated by a narrow Channel not a mile broad, lies the little Island Callao, bearing due N. and S. from the Head-land or Point called Punta de Calloa. There is also another very low round Island, lying half a L out at Sea, from the N.W. end of the Island St. Lawrence: N. B. Within about 2 Cables length of this Island of St. Lawrence, there is 60 Fa. Water, Bottom foft Oaze.

The Road of Callao is certainly the greatest, the finest and the fairest in all the Sonth-Sea; it is safe Riding, clean Ground, deep Water, and gradual Shoalings over the whole Road, as well above the Town towards less Pifeadores, as below it to

rom of which is a clean Strand, a randy Oaz, and no rough Sea.

Ships may anchor over all the Bay in 12 to 15 Fa. well shelter'd, in smooth Water, and a good sandy Bottom. N.W. from La Bodoga in the Bay of Paraca, there is a very good Road: There are some Houses on the Shore, built on purpose for the Conveniency of loading and unloading Ships, and many Ships chuse to anchor there, tho it be 2 Ls from the Town, rather than go up to the Road, because the Sea runs so high at the Landing-place before the Town, that it is almost impossible to land there, especially in the day time; sometimes in the Morning it may be done with the help of a good Hawser, or small Cable and Anchor, but it is always with Trouble, and not without Danger, at least of staving the Boats.

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Ships_

From Port Paraca, or Pifco, to Chinea, not the Island, but the Port of Chinea which lies on the Coast, the Course is N.W. dist. 6 Ls all low Land, and fast clean Ground, the same as in all the way from Canette to Pifco, except about 1 ½ L from Pifco that way, there is a Ridge called Caneatto; you must not come too near that small slip of the Coast, because of those sew Shoals made by the Freshes of the River of Pifco, as above.

In the Midway between Pifeo and Chinea is a Place called Lorinchine i, where there is a rolerable good Road. It is not a Town only, but a Road for Ships; there is a fair Strand on the Shore, but there runs a great Sea upon it; you may anchor in 6 Fa before a House which you will see on the Shore near a white Church, which House they call El Molino, or the

Mill.

From Chinca to Canetto is 4 Ls, the Course N.W. If you would come to an Anchor in the Port of Chinca, observe a Palm-Tree up within the Country, thro' a large Guava or Indian Pagode, or Place of Heathen Worship; bring both the Tree and the Pagode into one, bearing due E. from you, then you are in the best of the Road, and may anchor in 7 to 8 Fa. Here Trading Ships ride as above, but the King's Ships ride farther out in 9 Fa.

Before this Port there are fix Islands, always looking white like Chalk by the Dung of Fowls which breed there, and they are known at a distance by their Colour, which is very particular; they bear from the Anchoring-place N.E. and S.W. dist. 3. Ls, being low; and, except by being discolour'd with the

Dung, they look a little reddiffi.

From Canette the Shore continues to trend away N.W. to Chilea, diff. 14 Ls. Between them you first meet with an Island under Shore, called the Isle of Asia; 'tis a small white Island about half a L in Circumference; it makes from the northward with a Break or Clift in the middle, that part which is to the fouthward being much higher and bigger than the other.

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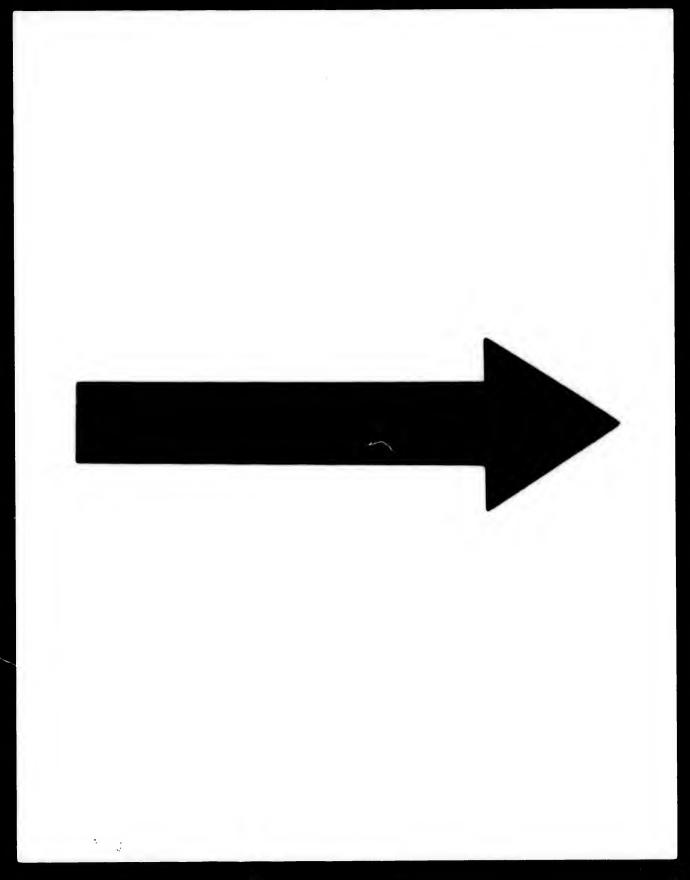
The Road of Callao is certainly the greatest, the finest and the fairest in all the South-Sea; it is safe Riding, clean Ground, deep Water, and gradual Shoalings over the whole Road, as well above the Town towards les Piscadores, as below it to St. Lawrence Island. You may turn in or out as you find Occasion, and as Wind and Weather permit, 'tis all clean and clear from Rocks or Shoals.

If you are bound in from the Sea, give the Punta de Callao or Head-land a good Birth, a L at least, because of the Winds off shore, which if you come nearer, you will find come off in strong Flaws and Gusts: Also take care of a small Ledge of Rocks which lie off from the windwardmost Point, all the rest is persectly clear.

Ships coming from the windward to the Port of Cailao, pals thro' the Bonqueron, that is, the Channel or Gut which is between the Punta de Callao and the Illand of Callao, because the Wind always serves them thro' that Passage; and especially if they are small Snips they go in right afore it, and there is at least 4 Fa. in the shoalest part of the Channel. The best way is to stand in from a little to the windward of the Island of Callao, and so run on, till that part of the Island that is to landward of the Morro Solar be shut in, and hid by the Pena Horodada or pierced Rock. There are Crosses upon each of those Points; bring those two Crosses into one, and you may run boldly in withour searing any thing: Those Marks well observed will secure you effectually from all dangers.

At the End of the faid Channel call'd the Bouqueron, which is the Passage between the two biggest Islands, and where the N. side of the greater Island begins, there also begins the shallowest part of the Channel: The Fair Way has thro' N.W and S.E. and you must always keep the Pena Horodada right aftern; and when you find a great Rock, which lies between the two great Islands, hidden by the S. part of the greatest Island, then keep closer to the Island, for then you may be sure you are clear of the Shoal. The side of the Island has more Water than the Point of Callao, where the Bank sied and where you will see the Sea break upon it.

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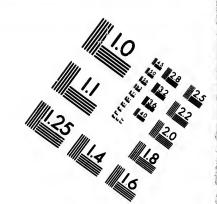
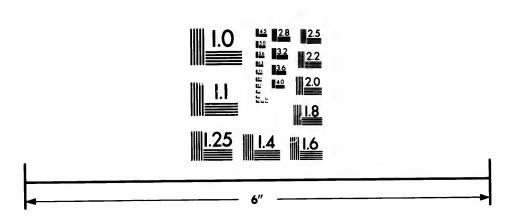


IMAGE EVALUATION TEST TARGET (MT-3)



Photographic Sciences Corporation

23 WEST MAIN STREET WEBSTER, N.Y. 14580 (716) 872-4503

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In this Course also observe a Break or Cleft in the high Lands of the Island, with a white Spot on the Top of it; then you may incline a little towards the *Port de Callao*, still giving a Birth to the Shoal, which then is to the eastward of you, or N.E. Nor when you steer in, must you come very near the Point; but provided you keep the N. Head-land of the Island to the westward, you may safely run in, and come to an anchor in the Port.

You may anchor in the Road also in what depth you please, the Ground an Ohive colour Oaze: There are no Rocks or Shoals, except one about three Cables length from the Shore near a Point of the Island of St. Lawrence, opposite to la Galera. The Sea is always so still there, that the Ships careen at all Seasons, without fear of being surprized by sudden Gusts and

Flaws, as is the Cafe farther S.

This Road indeed is open to the N. and to the N.N.W. but those Winds hardly ever blow here, and if they do 'tis but a very gentle easy Gale, which never makes the Sea swell to do any damage: The Island of St. Lawrence breaks the Sea off from the S.W. to the S.E.

N. B. The Place call'd above la Galera is not an Island, but the westermost Point of the Island of St. Lawrence, which is call'd by the Name of the Galley, because Slaves condemned to the Gallies were banished hither to dig Stone in the Quarries, the Spaniards having no Gallies in those Seas.

In this Port of Callao are to be found all Conveniences for Life; watering is most easy in a little River which comes down from Lima, and bears the Name of the City, and which talls into the Sea under the very Walls of Callao.

N. B. The Port of Callao lies in Lat. 12 d. 10 m. 'Tis 2 Ls by Land from Callao to Lima, of which this is the Port.

From Porto Callao the Coast trends N.N.W. to the Farrelines de los Piscadores, or the Fishermen's Rocks, dist. 5 Ls, and from the Head of the Island de Callao 'tis 5 more; the Land between is low from Callao to the Rock call'd de Dona Francisca exclusive, and high from Dona Francisca inclusive to los Piscadores.

The Ferralones de Piscadores are a Cluster of Rocks, fix in number, all looking white, but of differing Dimensions; that to the N.W. is the biggest. They bear from one another 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 Island of Callao N.N.E. and W.S.W. dist. as above 10 Ls.

N.W. from the great Rock of the Piscadores, which lies also N.W from the rest, lies the Port of Chaucai, dist. from the said great Rock 3 Ls. The Land is high next the Sca, and makes with a Break or Cleft in the Middle: This high Land is call'd Sterra de la Arena, that is, the Hill of sine Sand. E. and W. with the aforesaid largest of the Piscadores Rocks is a Harbour, which some call Puerto del Ancon de Rhodas, others only el Ancon; it is a good Port, and safe riding; and distance

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mention'd above, then the *Hormigas* or *Ormigas*; these lie E. by N. and W. by S. from one another, dist. 9 Ls. The *Hormigas* and the *Maltest* bear from one another due N. and S. 7 Ls.

The Island or Rock call'd *Hormigas* is but finall, it makes white when you see it from the Sca; it has a little Break upon it in the Middle on the S. side: There is good anchoring under it on the same side, the Bottom clean, and good hard Sand. On the N. and N.W. sides there are several Rocks, which make a Flat or Shoal stretching out to seaward near a L, and at the End of those Flats several other Rocks above Water. By day you may see the Breach of the Sea upon them, and in the night you may hear it as far as you can see it by day.

You must look well out when you pass by these Rocks or Islands of Hormigas, for they have been fatal to many a good Ship: Nor is it possible to shun them sometimes, as the Winds may lie. If you are in that Latitude, and would make the Head or Point of the great Rock properly call'd Hormiga, supposing it to be in the night, or that you cannot see it in the day by reason of thick hazy Weather, do not make too long a Stretch, tho the Wind should be large, but ply off and on till day, or till the Weather clears up; for sometimes 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 several times to Ships which have stood too far in upon a Tack.

From Maltesi to the Morro Salina, or the Head land of Salina, the Course is N.E. and S.W. dist. 4 Ls. From Maltesi to another great dry Rock call'd Marsocque is 1. L. and from Marsocque to the Main is 2 Ls. These are the Rocks of Guara, call'd to from the Cabo Guara which they lie off from, and after which they take their Name; they are seven or eight in number great and sinall, bearing from one another E.N.E. and W.S.W. They are clean all about them, and steep too, with deep Water as well within as without, particularly between Maltesi and Marsocque: The Channel is good and safe, and has not less than 40 Fa. Water in it; but if you are bound thro', keep a little to the windward, and stand by your Anchors, having them ready to let go on the first Occasion.

This Rock of Maltest and the Island Don Martin bear with one another N.E. by N. and S.W. by S. Maltest and the Island of Callao bear to one another N.W. by N. and S.W. by S. dist. 15 Ls; and all the Coast from below, that is, from Sunta to these (above Sea) Rocks, has deep Water and a clean Course.

N. B. The Rock Maltest is in Lat. 11 d. 40 m. 2 ? Ls from the Main; Marsoque is larger, and lies a L. from Maltest towards the Shore.

When you come in for the Main, and make these Rocks, take heed you do not, to shun them, run into the Bay of Chancai, for there are commonly dead Calms and a great Sea, as is said above; but stand away for the Hormigas.

From this Rock Maltest, which is the outmost of that call'd Partridge Strand, the Course lies N and S. to Guaco, dift.

to los Piscadores.

The Ferralones de Piscadores are a Cluster of Rocks, fix in number, all looking white, but of differing Dimensions; that to the N.W. is the biggest. They bear from one another 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 Island of Callao N.N.E. and W.S.W. dist. as above 10 Ls.

N.W. from the great Rock of the Piscadores, which lies also N.W. from the rest, lies the Port of Chaucai, dist. from the said great Rock 3 Ls. The Land is high next the Sea, and makes with a Break or Cleft in the Middle: This high Land is called Sierra de la Arena, that is, the Hill of sine Sand. E. and W. with the aforesaid largest of the Piscadores Rocks is a Harbour, which some call Puerto del Ancon de Rhodas, others only el Ancon; it is a good Port, and safe riding; and distance from the Piscadore Rock only 1 L. The Passage in, is to the N.W. of the great Rock, 'tis all clean and deep Water; but no fresh Water, Wood, or any other Restreshment is to be had.

The Port of Chaucai is very inconvenient for Calms, for tho there are stark dead Calms, yet there is a great Sea, which pulhes you upon the Coast, so that it is almost impossible to avoid going on Shore: If therefore you are bound in here, and taken with one of these Calms, you had better go on by

the Island Hormigas.

Yet Chaucai is a very good Port, land-lock'd against the southerly Winds, which are here the most boisterous. There is indeed sometimes a great Sea in the Harbour, occasion'd by the Sea-Breezes which blow right in, and hold it a long while together, so that there is no Shelter against them: Yet the Swell is not so great, but Ships may ride it out if their Ground-Tackle be good, for the Anchor-hold is good in a hard Sand.

To go in here, your best way is to run close under the Headland, for the Port is to the Leeward of it; you may anchor at Discretion, the whole Port is all clean Ground: Here you have fresh Water and good Provisions, especially Flour, Oil, Wine and Brandy. In your going into this Harbour, take care not to come too near a little Bay, which you will see at the Entrance, for it is all foul, and has many sharp little Rocks being under Water which

lying under Water, which are very dangerous.

N. from Chaucai lies the little Town Chaucaillo, the Course N. by W. dist. only 2 Ls: The Shore here is all ridgy and full of Hillocks, they look blue as you make them from the Sea, but they are only grown with thick Bushes, which causes them to seem dark. On the contrary, when you come near the Town, they and the Town also appear white. The Town lies half a L from the Shore, but you see the Church of St. Francisco very plain. The Harbour is the same as above, belonging to both the Towns, but not much frequented.

You have here abundance of Rocks and rocky Islands upon the Coast, from the *Piscadores* to the Salinas, and reaching as far N. as Port Guara; these are the Farrelones de Piscadores

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N. B. The Rock Maltesi is in Lat. 11 d. 40 m. 2 ; Ls from the Main; Marsoque is larger, and lies a L. from Maltesi towards the Shore.

When you come in for the Main, and make these Rocks, take heed you do not, to shun them, run into the Bay of Chancai, for there are commonly dead Calms and a great Sea, as is said above; but stand away for the Hormigas.

From this Rock Maltess, which is the outmost of that call'd Partridge Strand, the Course lies N. and S. to Guaco, dist. 7 Ls; between them lie the Salinas or Salt Ponds. The Land in this Course lies low and slat next the Sea, the Mountains appearing beyond it like Clouds. There is a very good Harbour at the Salinas, and you may ride easy, tho the Breeze generally blows hard in, and brings in a tumbling Sea.

If you are obliged to put in there for Shelter, you must, but you will get nothing else; and if you want Wood, Water, or other Provisions, you must setch them at Guara. If you would ride here, you must anchor before you come up to the Rocks, which you will see under the Shore: Come no nearer than 7 to 8 Fa.

N. B. Here is another small Port call'd Puerto de la Barca, but 'tis of little or no use, there being nothing to be had but Anchorage, which is to be had in many Places just by it.

Likewise on this Coast, from the Salinas to windward near Cabo de Remate, and over against los Farrelones de Guara, or the Rocks of Guara, there is a small round Bay in which is good riding; 'tis shaped like a Horse-shoe, and is therefore called la Herradura. It is a very useful Place; for if you are coming from the Sea, and cannot weather the Rocks of Guara, you may put in here, and be sase, it being an excellent Harbour; you ride between the Point and the Main with great sasety: The Point is call'd the Remate, or Cabo de Remate.

There is a small Rock in the Bay, which they call Tambilio; you may run on either side of it, between it and the Shore or without, 'tis not dangerous because you see it, and 'tis clean and deep all round it. From this Point to the Playa de los Perdices, or the Partridge Strand, is 3 Ls; the Land between is call'd the Tambo, or the Coast of Tambo. Upon this Strand you have good clean anchoring-ground, under a Row of high ridgy sandy Hills, one of which lying to the northward is higher than the rest. When you come from the seaward towards this Land, those Hills resemble a Covey of Partridges just rising, and from thence the Coast or Strand has its Name.

You are supposed now going to the northward, and that you are the height of the Rocks of Guara: From thence

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Sailing Directions for the Coasts of Ch

N. by E. lies Guaco, dist. 1 L. And whence to the Island of Don Martin 'tis also 1 L. They lie in Lat. 11 d. 30 m. Going to windward of the Island, you will see another little Island, call'd Island Lobos, or Sea-Wolves Island, near which there is a Shoal; you must take great care to keep without it, and at a good distance from it, for it is very dangerous, and but little Water within it. To anchor in the Port of Guara, bring Island Lobos a-stern, and bring two old Walls which make like two Pillars, and stand upon the Point or Head-land, into one; then let go your Anchor, but take care to sound the place well, for the Ground is soul, and there are several sunk Rocks, which tho too deep to hurt your Ship, will cut your Cables, and you may lose your Anchors.

You must moor here with an Elbow, for you have a rude Sea, but the Harbour is much esteem'd: You have good fresh Water, and may get all necessary Provisions from the Town,

which is a L from the Harbour.

N. B. The Isle of Don Martin is high and rocky, it makes white at a distance; 'tis but a finall Island, about half a L

in compals, and a quarter of a L from the Shore.

From the Island of Don Martin to the Strand of Sonpa the Course is due N. dist. 3 Ls: The Land on the Coast between is low, but behind that low Land the Country is exceeding mountainous, and the Hills rise up in small Pico's like Volcano's. This Playa de Sonpa makes a large Bay; the Shore is all a loose Sand; the Bay has always a great Swell, and if it blows hard there is a very rude Sea: This is the reason that sew Ships use the Place, except Coasters from Lima and Panama to load Corn.

From the Bay of Soupe to the Rio Barranea, or the River of Hillocks, the Course is N. the dist. 2 L. To Leeward of the Strand the Coast is full of red Hills, which make a small low Point; and to Leeward of the Point is the Port of Barranea, in Lat. 11 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-Breeze.

About a L before you come to the Rio Barranca lies Paramonguilla, a Head of Land which makes at a distance like a Ship under Sail, and as you come nearer shews 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 case the Current forces you in, in 6 to 7 Fa.

From the Rio de Barranca, or of the Hillocks, the Course is N.N.W. to Jaguey or Haguey de la Costa, dist. 9 Ls: The Land appears in Heaps and Hummocks, but low next the Coast; and in the Middle there is one Hill higher than the rest, call'd the Sierra de Gramadal, on the Top of which are two Cliss, which make it look like three Hills, the middlemost is the highest, the southermost the lowest, and the northermost the least and round. If the Weather be thick, and you have an Ossing, they make like three Islands.

From Hagney de la Costa the Shore trends away N. half W. to Puerto de Guarmey, dist. 4 L. This Port of Guarmey has a low that Point on the S. side of it, and the inland is killy

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the Hills.

Tho the Island is small, it has a good Harbour, and especially for this, that there is good fresh Water at a small distance from the Shore: You will fee a little Well with about half a Fa. Water in it, which is tolerably good; and so wherever you go but 10 or 12 Paces from the Sea, and dig but a Yard deep in the Sand, you will find fresh Water.

You may know this Harbour off at Sea by a great thick high Hill with a Cleft in it, which re s down to the fouthward to the Sea-fide, and on the N. fide 'tis almost perpendicular, as steep as a Precipice: This Mark is so particular, you cannot

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N. from Mongon the Coast stretches on to Casma, dist. 4 Ls: And here the Course of the Sea alters, as well as the Sight of of the Coast; for from Port Casina, or Cazma, the Land trends out far westward, and the Coast lies N.W. by N. and S.E. by S. and the Current of the Sca for the most part runs to Leeward. There is a great Mountain just over Mongon, which is much higher, and seen farther than any of the Hills on this part of the Coast; if you see it at Sea S.W. from you, it makes level at the Top like a Table; if E.N.E. from you, it looks round with some broken Land on it; and when you have it N.E. the broken Land begins to open, and shew smooth and contiguous. "

Cazma is a very good Harbour; and tho you have always blowing Weather and hard Gales here from about 12 at Noon to Sun-set, yet you have no great Sea: In the Bay and nearest the N. Shore, you will see a small round white Rock a little above Water; on the other (South) Shore there is a finall Shoal of about 2 or 3 Ship's length, which you cannot fee, but may discern where it is at low Water, by the Sea breaking upon it, which it does tho there is at least 1 ½ Fa. Water upon it. When of. you are past between these, you may range the Shore at Discretion in 14 to 15 Fa. close to the Strand: If you would come to an anchor, steer against Cape Blanco, being a white Head-land which you will see on the Shore; there carry your Hawser or Stream-Cable on Shore, and make fast to the Rocks about the very Cape, you are fure of having the Wind off

From this Port Cazma the Coast goes away N.W. to Ferol. dist. 1 Ls; between them is a Harbour call'd Guambacho: there are also several small Islands and Bays upon the Coast, which when you make the Coast at a distance, you cannot discern, because the Points overlap one another, but they open as you approach. If you would anchor at Guambacho, you must not forget that to windward of the Hill call'd el Morro there is a imall Rock under Water, and when you are within the Headland you will see broken Land on your Starboard-side; steer right in, and come to an anchor over-against a Hill; or you may go farther up on the fame fide, and anchor where you will see great Spots on the Land. Here also you must carry a Hawfer a-shore, because there are strong Flaws of Wind from the Hills.

Opposite to this Port of Ferol lies the Island del Santa, or Holy Island, a little northerly, and dift. but I L. And from v thence to dek Acarma is to Ls. the Course N.W. by N. and

About a L before you come to the Rio Barranca lies Paramonguilla, a Head of Land which makes at a distance like a Ship under Sail, and as you come nearer shews 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. you may anchor, in case the Current forces you in, in 6 to 7 Fa.

From the Rio de Barranca, or of the Hillocks, the Course is N.N.W. to Jaguey or Haguey de la Costa, dist. 9 Ls: The Land appears in Heaps and Hummocks, but low next the Coast; and in the Middle there is one Hill higher than the rest, call'd the Sierra de Gramadal, on the Top of which are two Cliffs, which make it look like three Hills, the middlemost is the highest, the fouthermost the lowest, and the northermost the least and round. If the Weather be thick, and you have an Offing, they make like three Islands.

From Haguey de la Costa the Shore trends away N. half W. to Puerto de Guarmey, dist. 4 L. This Port of Guarmey has a low flat Point on the S. fide of it, and the inland is hilly and mountainous, with Ridges and Hillocks numberless just over the Port; but within the Land are two round Hills thicker and higher than the reft, the northermost is the highest by far: The Road is to the Leeward under the low Point, where you may anchor in 7 Fa. keeping a Rock above Water,

which you will fee there right a-stern.

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 such case 'tis all safe and bold. If you go farther up, you have 6 Fa. Water for some Ls; you may water with great Convenience, and have all needful Provisions also.

Between this Port and Puerto Bermejo is the Hill call'd las Tetas de Bermejo, becaule it makes like a Woman's Breasts:

Puerto Bermejo is an Island.

The Port of Guarmey is in Lat. 10 d. 30 m. dist. from Torto Venais 3 Ls N. and S. If you would go in there, you will see those Hillocks mention'd above run as far as the Point Cabesta-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-thot to Leeward of the Road is the Creek, where the coasting Barks load; go not either 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 Cabesta del Gatto there is a very good Harbour, the Town is within about half a L from the Strand.

From the Harbour of Gnarmey to Mongon the Course lies N. and S. dist. 10 Ls; between them lies the Island Puerto Vermejo or Bermejo, 4 Ls dist. from Mongon; 'tis a small white Island, and in the Middle lies a Bay, which makes with two Points, call'd Sagietta dela Calebra, or the Snakes Dart: The Land between Mongon and this Island is high and in Hillocks, with large Spots of white Sand; it is call'd an Island, but there is no Passage between it and the Shore, the Shoals are so many, that fometimes 'tis almost all dry Land.

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Flawler of Streams Capic on Shore, and make late to the Rocks about the very Cape, you are fure of having the Wind off Shore.

From this Port Cazma the Coast goes away N.W. to Ferol, dist. 1 Ls; between them is a Harbour call'd Guambacho: there are also several small Islands and Bays upon the Coast, which when you make the Coast at a distance, you cannot discern, because the Points overlap one another, but they open as you approach. If you would anchor at Guambacho, you must not forget that to windward of the Hill call'd el Morro there is a imall Rock under Water, and when you are within the Headland you will see broken Land on your Starboard-side; sleer right in, and come to an anchor over-against a Hill; or you may go farther up on the same side, and anchor where you will see great Spots on the Land. Here also you must carry a Hawfer a-shore, because there are strong Flaws of Wind from the Hills.

Opposite to this Port of Ferol lies the Island del Santa, or Holy Island, a little northerly, and dist. but 1 L. And from thence to del Acarma is 10 Ls, the Course 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 some small Islands 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 large, and has feveral Spots upon it, by which the Place is very cafy to be Over-against this Mountain there is a Shoal, but you have no Occasion to come near it.

From the Island 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 in the Mouth of a River of the same Name, E.N.E. from the Island, and N.N.E. from the Point of Ferol: And from this Porto de Santa to Cape de Chao, or de Chau, the Course 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 several Rocks along the Shore, call'd the Corcobados, or the Humpbacks; you must not attempt going between them and the Shore, because there are feveral Ledges and Shoals, which will infallibly bring you up: And just before the Harbour of Porto Santa lies an Island stretching about a L in length N. and S. You may go into the Harbour on either side of it, and anchor in 7 to 8 Fa. all clean Ground. As you go in you will fee some Trees about half a L up, on your Starboard-fide; behind those Trees lies the Town.

N.W. from Cabo de Chao lies Porto Guanchapo, or Guanchaco, the Course N.N.W. dist. 16 Ls; in the way lies the Island of Guanape: The Land opposite to the Island is call'd the Cape of Guanape, it lies N.W. and S.E. from Chao dift. The Cape of Chao is a high Precipice, with feveral small white Rocks just before it, which look like Islands; to the windward of it there is a little blackiffi Island, by which you will know the Entrance.

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lics N. Vermee Island. Points, e Land s, with here is many, N. B. If you come upon this Coast, you must make in for the Harbours where you can find them, and according as the Course you are steering guides you; but you must not depend upon the Shoalings of the Shore, for there is no Road or Anchoring-place upon all the Coast for near 20 Ls. The Head-land of Guanape is about half a L round, encompass'd by the Sca: Tho it be called a Cape only, it is really an Island, and Ships bound to Truxillo frequently pass between the round Hill called Morro de Guanape and the Main: The Channel indeed is not large, but safe and without danger, for all that can hurt you appears above Water: The Course from hence to Truxillo is N.W. by N. From Porto Santa to this Island of Guanape is 9 Ls S.E. And from Guanape to Porto Guanchaco is 9 Ls N.N.W.

In the Midway between Guanape and Guanchaco is a large Bay; and on the Main in that Bay stands a Hill called Morro de Caretas, 'tis about the middle of the Bay E. by S. before you as you go in. The Coast within the Bay is bold, and the Water deep, the Bottom clean, so that you may stand in as near as you please with your Lead; the Land is slat and low to the Sea side; yet you will not chuse to anchor in this Bay, unless oblig'd to it, for there goes a very rude Sea.

A little to the fouthward of this Bay, and without the Cape de Guanape, you will see a great Rock call'd Farrellon de Guanape, within which there is a small Island towards the Land, which also may be call'd a Rock. Between these two there is a good Channel; it is not very broad, but 'tis all clean and safe, and 10 to 15 Fa. Water. You may steer thro' it with your Lead, going with all imaginable Sasety either one way or other, as the Wind presents.

From Guanchaco the Coast trends N.W. by N. to Puerto Malabrigo, dist. 14 Ls. Guanchaco is the Sea-Port to Truxillo, a considerable City, which lies some Ls up the River, and which makes the Harbour of Guanchaco: They are exactly in Lat. 8d. S. If you would go in here, keep the great Church of Truxillo open right a head, and the Bell of Truxillo bearing N.E. by N. and when you find 10 Fa. by your Lead, which you must keep going, then you are in the Fair Way. If you would go farther up, bring la Sierra de Campana, a high Hill which you will see also within the Land, to bear N.E. by N. and then you are in the best of the Harbour, and may anchor in 7 to 10 Fa.

N. B. You must 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 such Quantities of Weeds as will choke and bury your Anchor and Cables also.

About midway between Guanchara and Malabrian there

About midway between Guanchaco and Malabrigo, there comes in a large River call'd Rio Chicama, but it is not natigable any length into the Country, nor does it make a good Harbour, the Mouth of it being so wide, that the Sands bar up the Entrance, and make it too slioal.

From Puerta de Malabrigo to Cheripe the Coast lies still NW, and S.E. dist. 11 Ls, nothing of any great moment be-

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oast lies still moment beThe Head-land or high Hill of Malebrigo is also a very good Mark at Sea; 'tis seen 12 to 15 Ls off, and is very high: bring it to bear E.S.E. at the dist of 3 to 4 Ls; you may then stand in with it for the Port. There is generally a great Sea in the Harbour of Malabrigo, the westerly and S.W. Winds blowing right in; and as they blow hard all the after part of the Day, the Sea hardly returns to any degree of Calminess Night or Day. If you come from the seaward, and are bound in at Malabrigo, the Mountain mention'd above is your Mark: you see it all the way from the Leeward of Cheripe to the Windward of Malabrigo.

Between this Port of Malabrigo and Cheripe lies the Coast of Pacasmayo, or Parasmayo: it is not a Harbour, but a great Strand stretching from the Bay 2 Ls to windward of Malabrigo, to within 2 Ls of Cheripe, being all the way a low sandy Shore, here and there interspersed with Crags and little Hillocks; and within Land there are some larger Hills called St. Peter de Illoque, and another called the Sugarloas of Guadalupe, which you will know at Sea by a little Break on the top. In the middle of the Strand of Pacasmayo there is one Rock higher than all the rest, close to the Shore; to the Leeward of it you may anchor in 12 Fa. Water, and pretty good Ground, compared to the rest of this Coast, for it is all at best soul and dangerous, and sew Ships care to anchor upon it, because the Sea goes so high, and the Ground is so bad.

For about 3 Ls beyond Malabrigo there hes a Bay; it begins at the very Point of this Harbour: To come to an Anchor in this Bay, you must found all the way, keeping in 5 to 6 Fa. Water as close up to the Head-land as you can, only no nearer than 4 + Fa, and then bringing the great Break in the Head-land to bear S. from you, there come to an Anchor.

This Hill spreads far up the Country, and has many Breaks and Hollows in it, which is the reason that it sends down constant Flaws and Gusts of Wind towards the Sea, which make the Road more dangerous, for it causes a great Sea in the Offing. The Land to the northward of the Road is broken and ragged, but in the middle of it you will see a round Hill, which is the true Mark for your Entrance into the Harbour.

The Harbour of *Cheripe* is a better Shelter to the Sailors than any of those Bays or Ports to Leeward of it: When you come from *Callao*, if you would go in here, keep to Leeward of a low Point, which makes at dist like an Island, and looks black. If the Weather be clear, you will make the Town of *Cheripe*, as you open the Harbour, or the Church at least, tho you are off at Sea 3 Ls.

Observe also, that from the windward Point of the Harbour there runs off a Shoal, which stretches out more than half a L to Sea, with a Ledge of Rocks also at the end of it; so that you must keep in 8 Fa. by your Lead to go clear of it. When you are past that dangerous Shoal, bring the Church to bear S.S.E. and run in right with it, then you will see a great Cross, bring the Cross due S. and there you may anchor in 7 to 8 Fa. a very good Road and clean Ground.

N. B. Puerto de Cheripe is in Lat. 7d. 5 m. dift. from Pa-

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From Tuerta de Malabrigo to Cheripe the Coast lies still N.W. and S.E. dift. 11 Ls, nothing of any great moment between, but the Marks for the Coast, which are indeed very particular all along from the Cabo ac Chao to Malabrigo, fo

that you cannot millake the Coast.

The high Rock of Guanapo, and the Morro Malabrico which is also very high, may be distinguish'd at Sea by their Bearings; they lie with one another N.N W. and S.S.E. no other Hills, tho there are many upon the Coast, having the fame Situation. There is good anchoring under the Lee of the Rock of Guanapo, in a little landy Creek having 7 Fa. Water, about two Musketshot from the Shore.

N. B. If your Boat goes up the Creek for fresh Water, it must be with the Flood, for the Freshes of the River have cast up a Shoal like a Bar thwart the Entrance, so that even

a finall Boat will be aground upon the Ebb.

Coming in for this Coast, the next Mark you make out at Sea is the Rell of Truxillo: First in the Offing you see a great Mountain, or rather a Ledge of Mountains, lying to the Leeward of Guanebaco, and stretching on almost as far as Porto Santta; the highest Picoes of them at the windward Point are your Direction for the Harbour of Truxillo, for they stand as it were directly over the Town; and when it bears E.N.E. from you, then you are to windward of Truxillo. Next to these Mountains you have the great Bell of Truxillo, a thick high Mountain which makes at Sea in the Shape of a Bell, and 15 therefore called fo.

When this Bell of Truxillo bears N.E. dift. 4 to 5 Ls from the Shore, it shows high and ragged on the top; if it tears S.E. 'tis shap'd like a Sugar-Loaf, and bearing N.N.W. At a greater dift. it makes like a Beehive. This is to fure a Mark to know the Coast by, that you cannot easily mistake.

If you would anchor any where on this Coast, it must be with the utmost Caution, and with Lead and Line in hand; and when you are at an Anchor, ride there as little as you can, for the Sea goes always very high, and the Shore is very foul

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Observe also, that from the windward Point of the Harbour there runs of a Shoal, which stretches out more than half a L to Sea, with a Ledge of Rocks also at the end of it; so that you must keep in 8 Fa. by your Lead to go clear of it. When you are past that dangerous Shoal, bring the Church to bear S.S.E. and run in right with it, then you will see a great Cross, bring the Cross due S. and there you may 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. dist. from Pacasinayo 6 Ls, the Course N.W. and S.E.

From the Port of Cheripe for 2 Ls northward, the Shore lies all in broken Sand-Hills, to a Place called Mocupe or Mozupe, being all rough, the Land higher towards the Coast than farther inward, and a Mountain particularly higher and longer than the rest, standing about half a L up the Country, and making in different Shapes according to the differing Polition you fee it in. From these broken Grounds the Course lies W.N.W. a.l. 4 Ls to the Hill, which the Spaniards call Morro Etin, to the northward of the Hills of Mozupei: and before you come the length of Morro Etin, there are feveral Lagunas or Lakes of fresh Water, you may find them by the high broken fandy Banks a L to windward of them; but except Necessity 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 in, and there always goes a great Sea in it.

From the Mountain of Cheripe, as describ'd already, the Course lies N. by W. but the Coast trending N.W. to the Lat. of 6 d. thrusts out to Sea due W. for 2 Ls and more to Cape Aguja; so that the Cape, and the Land 2 Ls within it, lies in the same Latit.

From Cheripe then to Punta de Agnja is 28 Ls, thus: from Cheripe to the Hills of Mozupa 2 Ls, from thence to the Morro de Etin 7 Ls, and thence to Punta de Aguja 19 Ls. In your Course toward Aguja you have before you the Hill Requene, which is high, ragged, and broken on the top, having on the S. side a Spire or Pico like a Sugar Loas. If you come from the seaward to make Cheripe, and the Current or Calm, or both, should drive you into the Bay, you will there discover another thick high Head-land directly over the Morro Etin, which may be seen 10 to 12 Ls off at Sea. If you are much to Leeward, you will have the Hill Requene as above to the southward, making a Peak; then the northermost Hill will

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shew it self like a long Table, and within it a little Mountain

up the Country.

From hence for 19 Ls the Coast is all low and slat, particularly from Morro de Etin to Cape Aguja, 'tis all a low Shore, no Highland to be seen from the Headland to the Point it self. Off at Sea in this Bay you will find two Islands of the same Name, that is, they are both called the Islas des Lobos, or the Islands of Sea-Wolves: they are distinguished in the Spanish Tongue by their Situation, Lobos de Barlevento, and Lobos de Sotovento; that is, the Windward and the Leeward Islands of Sea-Wolves or Seals.

N. B. The Lobos de Sotovento is to Leeward, about 2 Ls in Circuit, low, with some high Rocks about it, and dist. from Cape Aguja 5 Ls. Lobos de Barlevento is about 7 Ls from the other; they need no Description as to the Navigation, only to keep off from them, according as you are bound in to Leeward or to Windward.

The Cape Aguja is a double Point also; one is called Aguja Sotovento, that is, the Leeward, and the other Aguja Barlevento, or the Windward; and they lie 4 Ls dist. from one another N. and S. being high Land tapering away to Windward down to the very Scaside. Ships should be very careful not to come near this Windward Point, for it is very dangerous, and

has generally a tumbling Sea upon it.

From this Cape Aguja lies another Island de Lobos, or of Scals, which is called Lobos de Payta: From this Lobos de Payta to Port Payta is 11 Ls, the Course due N. forming a large Bay called the Bay of Cechusa, from the Town of Cechusa which lies due E. from the Island, upon the opposite Shore: also from the said Puerta de Payta to Cechusa is 10 ½ Ls S. E. and from the Town of Cechusa out to Sea to the Isle of Lobos is 11 Ls due W. so that the 3 Points of Payta Lobos and Cechusa, make a Triangle almost equilateral.

All the Bay is flat, but deep Water and clean Ground; and if there be occasion either on account of Squals or a rolling Sea, Ships may take Shelter down in the Bay, especially to the Leeward of Cape Aguja, where there is a place or two so quiet, that they may wash and tallow with all possible Sasety.

The Lobos de Payta is a small round Island, the Coast not high, but very clean Ground round it, and close to it; the Bight within it is called La Eucanada de Cechusa, being the

fame mention'd above.

Due N. from Lobos de Payta lies Pena Orodada, dist. 2 Ls; and from thence to Payta 2 Ls more N. by E. Here comes into the Sea, at a large Opening, the River Coquimao, or Chuquima; the Entrance into which makes the Harbour of Payta: The River is large, but not navigable for great Ships far in; also the River Cottona empties it self at the same Mouth into the Sea.

From the Harbour of Payta to Cape Blanca the Course is N.W. part of the way, viz. to Punta Parina, and then due N. and S. to the Cape: the Land from Payta to Punta Parina is a large Bay, low Land, with some white Hills all the way; but take care of coming into it, for besides its being subject to dead Calms, there are also many Shoals thrown up by the Freshes of the River nam'd above. From that River to the

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May to November there blow very hard Gales, generally from the same Point, that is, from between the S. and S.W. and when it blows thus against so strong a Current, it must necessarily raise a violent Motion in the Sea: But you may come as near the Shore as you will, for 'tis all steep; and here are serveral Points and Bays, which run one within another, and break off the Violence of the Waves.

From Cape Blanco to Santa Clara the Coast trends away N.E. but as Santa Clara is an Island in the Mouth of the Entrance into Guyaquil, and so lies off some Ls from the Coast. the Course from Tombez, which is Midway from Cape Blanco,

lies N. by E. and N.N.E.

The Mountains of Tombez begin about 2 Ls to the fouthward of Punta del Mero, dist. from Cape Blanco 10 Ls, and to Tombez 2 Ls more: the Course to the first is N.E. and then due N. and S. Along great part of the Coast you have double Land, and about Midway very high Mountains: these Mountains lie from the Coast high up the Country, and are called La Sierra de Mancora. Under that part of them which lies next the Sea, there is a small Bay with a white sandy Coast: to the southward of that Bay lies a high Point, and a little to the Lectuard of that Point another very fine curious Bay, where is sase anchoring in very good Ground, and what Depth of Water you please.

At the other part of that high Shore comes in the River of Tombez; the Mountains of Tombez run along the Coast. till you come to a low Point called Punta del Mero: then the Land next the Sea is low and flar, tho the Country within is high and mountainous. The Channel is known by a Tree higher than any other in all the Country, and which stands just at

the Entrance of the River.

If you would go in here, be careful not to come too near the lowest Point of the Entrance, for there is a Shoal which shoots out from that Point, and runs above a L into the Sea.

From the River of Tombez to the Island of Santa Clara is 6 Ls. some say 'tis but 4 Ls; the Course N.N.E. in which Course you necessarily cross the River of Guyaquil. The Island is easy to be known; it appears like a dead Corps extended at sull length, therefore the Spaniards call it Morto: it is about 2 miles in length, dist. from Guyaquil 27 Ls. The Mountains of Tombez are seen far out at Sea, 10 Ls beyond the Island of Santa Clara.

The Course from the Island of Santa Clara to the City of Guyaquil lies E.N.E. especially from Point Arena in the Island of Puna, which is within the Mouth of the River. Great Ships can not pass between Santa Clara and the Island of Puna, because there are several Shoals cast up by the Freshes which come down from the Mountains by the Channel of the River. It is true, there are some Channels large enough, which have a sufficient 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 Puna; it reaches near Mid-Channel over on the fide of the Island, and is difficult to avoid, unless you have a commanding Gale to keep in that Channel, which is nearest the

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The Land is much the same beyond Point Parina; there's a Shoal facing that Point on the windward fide, and the Land is low there; it makes like a Islands: you may anchor under the Lee of the Point in 12 Fa. the Country within is very high and mountainous. In the Midway from the Point to Cape Blauco there are feveral Coves and Bays, as Malaca and Talara or Farala; this last is a good Harbour, and goes in under a bluff Point, with a white craggy Rock, which stands 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 occasion, if the Winds and Currents force you down; but then you must ride as it were upon Life and Death, with 3 Anchors out at a time, one to the fouthward, another to the S.W. because of the many hard Squals from the Shore, which come down every day after 12 a Clock, and last till Sun-set: and another Anchor to the N.E. on account of the Land-Breezes. You ride here in about 12 Fa. Water, but take care to allow for a Shoal close under the Point on the Leeward side.

Cape Blanca is a high Cliff, known by a great white Spot on the Rock close to the Water's Edge. Just under the Cape on the Leeward side, there is a small Bay, where there is good anchoring in 1.4 Fa. clean Ground, and (which is rare for this Coast) a quiet Sea: also here is good Fishing, which makes great numbers of Barks and Shallops frequent the Place. The

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anca the Course is ina, and then due to Punta Parina Hills all the way; its being subject to hrown up by the that River to the white, with small Tarks for this Port it the Land to the those Mountains, ve 8 to 10 Fa, just Ground to anchor

et Parina; there's le, and the Land is y anchor under the in is very high and int to Cape Blanco and Talara or Faes in under a bluff tands over it like a no Ships frequent d take Shelter there force you down; and Death, with 3 rd, another to the the Shore, which id last till Sun-set; of the Land-Breezes. e care to allow for fide.

reat white Spot on under the Cape on iere there is good ich is rare for this ing, which makes it the Place. The

dward, and there-

6 Ls. some say 'tis but 4 Ls; the Course N.N.E. in which Course you necessarily cross the River of Guyaguil. The Island is easy to be known; it appears like a dead Corps extended at full length, therefore the Spaniards call it Morto: it is about 2 miles in length, dist. from Guyaquil 27 Ls. The Mountains of Tombez are seen far out at Sea, 10 Ls beyond the Island of Santa Clara.

The Course from the Island of Santa Clara to the City of Guyaquil lies E.N.E. especially from Point Arena in the Island of Puna, which is within the Mouth of the River. Great Ships can not pass between Santa Clara and the Island of Puna, because there are several Shoals cast up by the Freshes which come down from the Mountains by the Channel of the It is true, there are fome Channels large enough, which have a sufficient 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 Puna; it reaches near Mid-Channel over on the fide of the Island, and is difficult to avoid, unless you have a commanding Gale to keep in that Channel, which is nearest the This is on the Starboard fide as you go up: and there Main. are gradual Shoalings on both fides, either to the Shoal on the Larboard fide, or to the Main on the Starboard, keeping in from 4 to 7 Fa. The Course clear of all is N.E. up the Channel, bearing about 2 large Ls off of Point Arena, where it is bold, and so quite athwart, till you get 2 Ls higher than the Point.

When you come against, or a little above a chalky Cliff, near the upper end of the Island of Puna, you must haul over for the Island, and come to anchor before the Houses. That high Point is easy to be known, because all the other Land on the Island is even with the Water, and elsewhere is all overgrown with Trees: the only Channel for Ships is under the Starboard Shore. Tis 8 Ls from the Point Arena to the Town of Puna, which lies on the upper end of the Island.

'Tis certain great Ships may go quite up to the Town of Guyaguil, because they build Ships of 400 and 500 Ton at the very Town.

From this Island of Santa Clara in the Offing of the River of Guayaquil, to the Point of Santa Helena, the Course is N.W. crossing the Mouth of the River Guyaquil: Punta de Santa Helena lies in Lat. 2 d. 15 m. S. There is a little Town just upon the very Point, and you may come to an Anchor right against it, in fight of the Houses, in 4 Fa. but then you ride there without any Shelter: but about a L and 4 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 Guyaquil and Point Sta Helena there is a large Bay called the Bay of Chanday, dift. from the Island of Santa Clara 12 Ls, and from the Point of St. Helena 8 Ls. The Course from the River of Guyaquil is W.N.W. Over Chanduy you will fee fome high Hills, and Breaks upon them, and a little to windward of those Hills you will fee, if you are within the Bay, the Island Puna, and the all the Season from Mouth of the River Gry iquil on that side of the Island.

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Three Ls to windward also of the Point of St. Helena is the Point del Carnero, with some Rocks like little Islands lying close under it.

At this Point of St. Helena you may have all necessary Refreshments even for a long Voyage. The Point it self is high, but as you come nearer to it, you will see a lower Point run

out fharpning towards the Sea.

Three Ls to Leeward of Port St. Helena is a little Island, with a Rock upon it, called Colanche. The Course from the Point of St. Helena is N.E. There is opposite to it on the Shore a River of the same Name, where there is fresh Water, which is frequently taken up by Boats from St. Helena, for the tise of Ships as they ride there under the Point. Ships may pass between the little Island and the River, or on any side of it, the Ground is all clean, and deep Water 10 to 15 Fa.

From this River of Columbe the Coast trends more to the N. and the next Place of note is the Island of Solango: The Course is N. by W. and the dist. about 7 Ls. The Land is midding next the Shore, but very high within the Land, being those Hills which they call the Mountains of Picosa, or Pisana, which hold on S. to the very Bank of the River Colambe. You will know the Coast by these Hills, which you will see a great way off at Sea; where you will perceive them narrowing away to a Ridge 2 Ls short of Colambe, and where also you will see little high Rocks or Islands called Los Aboreados, or the Hang'd Men.

Due N. from this Island de Solango the Coast trends away to Port Callo, the dist. 4 Ls. Between them are two Harbours about a L dist. from each other; they are known by some white Cliss which stand just between them: the Leeward Port is the deepest Water; there are Provisions to be had at either of them, and Shelter from southerly Winds. From this Port Callo to the Island of Plata is about 4 Ls N.W. by W. fo that from Point St. Helena to the Island la Plata is 18 Ls N. by W. but if you go in by the way to the Bay and Roads of Colanebe, Callo, Ec. you make it 20 to 21 Ls, and vary the Course also.

From Port Callo the Coast stretches on N.W. to Cape St. Lorenze, or St. Lawrence's, dist. 6 Ls, the Isle la Plata lying from it S.S.W. about 4 Ls. The Island la Plata has on the S. several small Rocks; when it makes at a dist. in the Ossing, it seems round and high, and as you approach makes like two Islands, but when you are near, proves to be but one. When you have Cape St. Lawrence S. from you dist. 4 Ls, the two Rocks without it bearing S.W. you will see Island de Plata sair before you, Lat. 1 d. 10 m. All the Leeward part of it is very clean Ground, and no manner of Danger any where about it, 'tis about 4 Ls S.S.W. from the Cape.

From Cape Lorenzo to the Bay of Caracas the Course is N.L. and E.N.E. dist. 17 Ls. In the Midway lies the Harbour of Manta, dist. from Cape St. Lawrence 8 Ls, the Course E.N.E. From Lorenzo to this Harbour the Land begins high, but falls gradually to within a L of the very Harbour. Upon this Coast

irections for the Coasts of Chili and Peru.

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Shore; but keep to windward, and fo run up close on board the white Hillocks of Choropeta, and then along the Coast into the Bay, carrying an easy Sail, and not running into less than 4! to 4 Fa. by your Lead.

When you are in the Bay, you have all dead Water, neither Wind nor Sea can give you the least Disturbance: When you come out, you may keep to Leeward, running along close to the Land which lies out towards Cape Passado, where you have Water enough close to the Shore. You have Wood and Water also in this Bay, and plenty of Cattle and Shell-Fish.

N. B. You should be careful to keep your Lead going, as well 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: Justat the very end of the Cape it forms a little upright Hollow, with Crags, which at a small distance looks like a Saddle. At about 6 Ls from the Point there is a small white Cliff called Cabo Balnea, or It hale Cafe. Near the Point there is a small Bay with several Hillocks, to Leeward of which hes a little Harbour; the going in is known by those Hillocks: if you are to windward of the Cape, and would come to an anchor, you must keep about 4 Musker-shot from the Shore, and drop your Anchor just before a Cross, which you will see set upon the Land: There you will have 8 to 10 Fa. and you should come no nearer. Cape Passado 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 Laguna or great

Pond, about 3 or 4 Musket-Shot from the Shore.

From Cape Paffado the Land makes a deep Bay, bearing in first N.E. by E. and N.E. and then suddenly trending off again N.W. to Cape Francis, or Cape Porfette; the Equator passing over the very bottom of the Bight, in the Midway, by the Barraneas Vermillias, or the Red Hills, which however are mixt with white, so that at Sea they make like Hills of Salt. If you would water here, you may run in with those Hills; leave 9 of them to Leeward, and come to an Anchor about Musket-Shot from the Shore, there you will find good clean Ground and 14 Fa. Water. On the broken Grounds are several Lagunas, which surnish Water all the year, the exactly under the Equator. From Cape Passado to these Hills is 10 Ls all N.E.

From Cape Passado to Cape St. Francis the Course is N. by E. dist. 22 Ls in a direct Run. The deep Bay mention'd above reaches from Cape to Cape; it is a very difficult and dangerous Bay, full of Shoals. Five Ls short of the Cape is Portere, or as some call it Port Petit, or Little Port; the Course between lies N.W. and S.E. the Anchoring is in 5 Fa. near the Headland, but you must sound all the way in, because of some Sand Banks in the way, called also the Portetes: near the Head-land you may have fresh Water sufficient.

The Wind at the Cape generally blows hard from Noon to Night, and then grows calm, especially from May to December. The Land at Port Petit is high, and then falls away to the

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From Port Callo the Coast stretches on N.W. to Cape St. Lorenzo, or St. Lawrence's, dist. 6 Ls, the Isle la Plata lying from it S.S.W. about 4 Ls. The Island la Plata has on the S. several small Rocks; when it makes at a dist. in the Offing, it seems round and high, and as you approach makes like two Islands, but when you are near, proves to be but one. When you have Cape St. Lawrence S. from you dist. 4 Ls, the two Rocks without it bearing S.W. you will see Island de Plata sair before you, Lat. 1 d. 10 m. All the Leeward part of it is very clean Ground, and no manner of Danger any where about it, 'tis about 4 Ls S.W. from the Cape.

From Cape Lorenzo to the Bay of Carecas the Course is N.E. and E.N.E. dist. 17 Ls. In the Midway lies the Harbour of Mania, dist. from Cape St. Lawrence 8 Ls, the Course E.N.E. From Lorenzo to this Harbour the Land begins high, but falls gradually to within a L of the very Harbour. Upon this Coast Midway between St. Lorenzo and Manta, there shoots out a, Point, off of which lies a Rock, and some Shoals without the Rock, which must be avoided. A little to Leeward of the Cape there is a Bay, in which there is also a Shoal which runs out a L from the Shore; between that and the Cape are two Rocks called the Frailys, or the Fryars, one bigger than the other, and both steep; but you may go close to them, there is no Danger near them. The Cape is also high and steep, but a clean Strand under it, and no Danger.

If you would go into the Harbour of Manta, you must be very cautious, and keep your Lead and ine in Lhand, because of a Shoal which lies just at the Entrance: to avoid it, observe a little Mount called La Sierrillo de Cruze, or the Little Hill of the Cross, which you will see just before you: bring this Mountain to bear over the end of the Town, and you go in clear of this Shoal. Then you may anchor where you please in 7 Fa.

keeping 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 Cames: if you would go about it, you must stand off, and give it a large Birth, for there is a great Shoal before it, which is very dangerous; you may know it off at Sea by the Mountain called Monte Christo, which almost every body knows by that Name, which lies a little to the southward, a very high and broken Land, and render'd remarkable by Sailors for its Name and Shape. Also in the Country, directly over Point de Cames, there is another very high Piece of broken Land.

All the way between these Ports or Harbours and the Bay of Carraeas, the Coast is full of high Land, with broken Cliss and white Hillocks, as far as the Rio de Choropota. From this Bay of the Carraeas to Cape Passado the Course is N.W. with white Hillocks, the dist. 4 Ls. You must not go into the Bay of Carraeas to Leeward, because there are Shoals in the middle of the Entrance, which reach over almost to that

N.W. to Cape St. the Isle la Plata d la Plata has on it a dist. in the Ofoproach makes like roves to be but S. from you dist. 1 you will fee Ilba All the Leeward ner of Danger any he Cape.

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may have fresh Water sufficient.

The Wind at the Cape generally blows hard from Noon to Night, and then grows calm, especially from May to December. The Land at Port Petit is high, and then falls away to the fourhward, and continues to as far as the Mountains of St. Juan de Quaque: From those Mountains there run in three finall Rivers, called the Coximes, or the Cojimes, from whence there are 3 Flats or Shoals, which run far out into the Sea : at the end of thole Shoals are feveral small Islands, but come not near any of them, for they are all foul and dangerous; 'tis likewife ill venturing to come near any part of the Coast in the Bight, for if a Calm comes on with the Tide of Flood, as frequently happens, you will be driven into some of those Ri-

We are now cross the Line to the northward. From Cape St. Francis the Coast goes on due N. to the Punta Galera, dift. 7 Ls; and being in Lat. 1 d. N. you are but just clear of the great Bight mentioned above, when doubling the Cape the Coalt trends again N.E. to the Bay of Tacames, dift. from the Point 2 Ls. At Tacames is good watering, and you may anchor at the Entrance under a finall Rock, where there is a good Road, and well shelter'd.

From Punta de Galera to the Bay of St. Mattheo the Coast stretches in N.E. by E. dist. 6 Ls. The Point of Galera runs far out, fharpning from Tacames, running cross to it from St. Matteo. The Point looks like a Galley turn'd Keel up, the Point shaping the Beak of the Galley. You may anchor half a L to the Leeward of the Point, keeping a little off because of fome Shoals, which lie on that fide under Water. Water in a little Brook within a Wood, at a dift. from the Road, but it does not run down into the Sea, except in the rainy Winter Scalons.

From St. Matthew's Bay the Coast lies N.N.E to St. Iazo. diff. 5 to / Ls: the Land is high, with hollow red Crags. Here are several Points on the Coast running out, which form good Retreats for Ships driven in by hard Squals and Flaws from the Hills, and by the Sea running high, as often happens: in fuch cafe you may anchor all the way between the Bay of St. Maithew and the River of St. lago, only go not into less than 6

Fa. Water.

Sailing Directions for the Coast.

If you are bound into the Bay of St. Mattheo, keep close to the windward Crags, that the Ebb may not drive you out, or horse you upon the Shoal which is at the Mouth of it. If you come to an Anchor there, do not ride in less than 7 Fa. If you do not find it in the Bay, send your Boat into the Mouth of the River, there you will have as much more as you want.

From the Rio de St. Jago there runs in a large Bay called the Ancon de Surdinas, or the Sea of Pilehards, and reaching almost to the Point de Manglares, or of Mangroves. The Courte of this Bay in a Line is N.B. and S.W. and the distance from Point to Point is 15 Ls. There is 5 Fa. in the Channel of the River de St. Jago: it is situated in Lat. 1 d. 20 m. N. the Coast peopled by Indians unconquer'd, who are yet very ready to assist the proposal Ships, and fell them Provisions.

to affift European Ships, and fell them Provisions.

N. B. Ships come hither from the building Ports fouthward

to load Cedar for the Shipwrights: also Ships in distress may be furnish'd here with Topmasts and Spare Yards.

The Rio de St. Jago is a large navigable River, the Channel deep, and able to carry Ships of Burden feveral Ls up: about 7 Ls from the Sea it divides it felf, and forms a large Island 3 Ls broad: The largest Branch of the River, and best Channel, is that on the S. side of the Island: Both Channels are very deep, but the Mouth of both sides is so choakt up with Sand and Shoals, that nothing can pass above the Island, hardly a Canoe.

The Mouth of the River is a L wide; the Stream runs strait and swift, and the Tide flows in about 3 Ls: The Stream is different in the different Seasons; and as the whole Country is subject to great Rains, so in the rainy Seasons the Freshes are so great, that there can be no Navigation at all. There are several great Shoals lie off the Mouth of the River, but they are discovered by sounding. One of those Shoals runs near 2 Ls out, on which the most famous Spanish Pilot Philippi de Corca was stranded, and lost his Ship Ann. 1594.

From Point Manglares, being N.E. from St. Jago, and cross the Bay of Pilebards in a direct Line, you may be said now to open with the Bay of Panama, which lies from this Point N. by E. but as the Coast trends away first N.E. to Bonaventure Bay and Cape Corientes, we must follow the Land as

it lies.

From Punta de Manglares, or Mangrove Point, to the Isle of Gorgona, is 35 Ls, the Course fair N.W. 'Tis a wild undiscover'd Coast, inhabited by Savages, who make War, not Trade their Business, and Ships have little occasion to come among them: We shall therefore take notice rather of the Islands than the Continent. The Islands in the Course between Manglares and Gorgona are, 1. Gorgonilla, a small Island with a Creek, called by some Spaniards Tumaco, where you may have fresh Water, and may anchor while you setch it in clean Ground and well shelter'd; it lies N.E. from Point Manglares about 3 Ls. 2. Gallo, a larger Island, lying in the same Course N.E. from the Point Manglares, and dist. 9 Ls.

From the Island Gallo to Gorgona is 24 Ls, the Course E. by N. The Coast on your Starboard side is all low Land, sull of Rivers from the Land, and those Rivers occasioning several

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Course E. Land, sull ing several very way a Mountain, and floaping away on all fides to the Sea.

If you would anchor here, chuse the S.E. of the Island, but then keep off of a little Island which shews it self there, and a Parcel of Rocks above Water, which you will see by it on the side next the Main. There is fresh Water at a fandy Shore, on the E. side, but 'tis bad Riding to stay for it, being in 50 Fa. near the Shore, and a very dangerous Anchoring-place, with the Wind southerly, especially at S.E. which blows right in The Island lies off from the Main due N. dist. 4 Ls, opposite to a River of the same, Gorgona.

From the Offing, when the Island bears from S.E. to N.E. it shews with 2 Breakers; next the N.E. Point it is lower; to the S.W. it makes a thick bluss Head-land, and in the middle forms a round Peek, rising higher than all the rest of the Island, as is

faid before.

From this Island Gorgona to the Bay of Bonaventura is 20 Ls, the Course N.E. and S.W. This Bay is very large, it lies in Lat. 3d. 45 m. There are many considerable Rivers that empty themselves into it, particularly those of Los Piles, of St. Juan, and others: and there are many Shoals lie off in the Sea within the Bay, some running out 2 Ls; so that it is a very dangerous Coast, especially to such as are unacquainted with it.

The Bay of Bueno Ventura onght to be describ'd as fully as

can be

When you enter the Bay from the seaward, if the Weather be clear, you will see within the Land a high Ridge of Mountains, with a kind of Peak on the Middle; then to the southward of that Hill another thicker Hill, very high, call'd de las Minas, or of the Mines; and still to the southward another round and steep, like a Sugar-loas. These 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 great Ships; but Boats and Shalops usually go in for Trade. When you enter the River, you will know it by this very fingular Mark, viz. That there is a great Tree which grows in the Middle of the Sea; you leave this Tree on your Starboard-fide, and fail directly up. Then you'll see a Creek on your Larboard side, go not in there, for you will find no way out; you come then to four Openings or Mouths, leave the first which is on the right Hand, for there is no Passage out neither, besides you will be a-ground in the Channel; but make up the fecond, which is fare and deep, and tho it feems narrow before you go in it, is not fo afterwards. Going up this Channel, you will fee a Creek on the Starboard-fide, call'd de Pero Lopez; run not in there, because that leads out into the Sea: Also leave another on the same side, call'd de los Piles, and keep always to the Larboard-fide, till you come to Puerto Viejo, which is 2 Ls short of the Fort; then run strait on, and come to an anchor just against the Fort. The principal Mark to know the Bay by as you come from the Sea. is, That you have all low drown'd Lands next the Sea, and high copling Hills within the Country.

cross the Bay of Pilebards in a direct Line, you may be faid now to open with the Bay of Panama, which lies from this Point N. by E. but as the Coast trends away first N.E. to Bona-centure Bay and Cape Corientes, we must follow the Land as it lies.

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From the Island Gallo to Gorgona is 24 Ls, the Course E. by N. The Coast on your Starboard side is all low Land, sull of Rivers from the Land, and those Rivers occasioning several dangerous Shoals in the Sea, by the violent Freshes in the rainy Seasons. These Rivers are, 1. Rio de Cedras. 2. Rio de los Barbacos, which comes into the Sea under a low slat Point. 3. Rio St. Juan, or St. John. 4. Rio Tellembie, and several others. On the E. side of the latter River is a great Mountain called Barbacos. S.E. by E. from this River are also other high Mountains, but their Names unknown: Here you may see the Island of Gallo from the Shore; it makes at that dist, as 2 Islands, one bigger than the other, but they are

really one. N. B. The Ifland of Gallo lies in 2 d. 15 m. N.

From hence, the Coast lying still E. by N. lies Punta del Morro de los Barbacos, or Point Barbacos, in Lat. 2 d. 45 m. being 10 Ls from the Rio Tellembier. If you want Topmasts, or Yards, all which the Island Gallo supplies, you may come to an Anchor on the N.E. side of the Island; and tho there is not still 5 Fa. Water, you may go in with safety, it is clean all the way with a sandy Shore, and you may even lay a Ship on Shore if you sind occasion: also you may wood and water at pleasure.

The Island Del Gallo is not so high as the Head-land of Barbacos, it is not above a L from the Main. If you come from the northward towards this Coast, you will find no high Land near the Sea all the way, except the Morrode Barbacos and the Island of Gallo: all the rest of the Coast is low and slat, and much of it over-slow'd with the Freshes in the rainy Seatons. If you happen to ply upon a Wind to make this Coast, come not within 3 Ls of the Shore and tho the Wind be large, yet if you are closer in, haul out, and for the Depth come not within 15 Fa. Water; if you do, you will run great Risques of being aground, when you least think of it.

The Island of Gorgona is all high Land, about 2 Ls in compals, and lying in length N.E. and S.W. When first you make the Island from the seaward, it looks like a high Bell, being e-

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Shalops usually go in for Trade. When you enter the River, you will know it by this very fingular Mark, viz. That there is a great Tree which grows in the Middle of the Sea; you leave this Tree on your Starboard-fide, and fail directly up. Then you'll fee a Creek 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 first which is on the right Hand, for there is no Passage out neither, besides you will be a-ground in the Channel; but make up the fecond, which is fafe and deep, and tho it feems narrow before you go in it, is not so afterwards. Going up this Channel, you will see a Creek on the Starboard-fide, call'd de Pero Lopez; run not in there, because that leads out into the Sea: Also leave another on the same side, call'd de los Piles, and keep always to the Larboard-fide, till you come to Puerto Viejo, which is 2 Ls short of the Fort; then run strait on, and come to an anchor just against the Fort. The principal Mark to know the Bay by as you come from the Sea, is, That you have all low drown'd Lands next the Sea, and high copling Hills within the Country.

Out in the Bay you may anchor under a Head of Mangroves on the Starboard-side, near an Island call'd *Realejo*; the Island is made by the River Ostiones: You are so to anchor, that a small Creek may lie just before you, so that when moor'd, it will be right a-head of you.

From the River of Bueno Ventura the Coast returns, and the Land trends away N.W. again, so that the Bight which lies farthest into the Bay, is distant from the Mouth of the Bay considerably.

N. B. From the great Tree which stands in the Water up to the Fort is 5 Ls: At the Fort you have 5 Fa. but in the Passage at several Places but two: Yet Barks and Sloops from 40 to 50 Ton go up as high as to a Village a L beyond the Fort.

N. B. When you have the Rock St. Pedro and Isle Palmas 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 Ventura the Land 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, especially in the rainy Scasons: The Shore is low, but there is no landing on it, for there are none but Savages, whom you know not how to trust, or whether they are at Peace or War with you: And they go off in Canoes and Periaguas, robbing all the Boats they can; so that you must be well armed if you venture among them: And this is the reason, why, tho the Place is so near the Center of all the most populous Spanish Colonies, yet this Coast is unfrequented and wild, and not so much as the Shores survey'd or persectly describ'd.

N. B. The distance from Bona Ventura to Neomines some of our Pilots make but 10 Ls, but the Spaniards make it 14 Ls.

Opposite to the Rio Neominas lies an Island call'd Palmas, 'tis low Land, and there are feveral Shoals about it. especially on the S.W. fide: The Island makes out in a sharp Point. Hereabout it was that the famous Buccaneer Sir Henry Mor-

can was ftranded, and loft his Ship.

From this Rio Neominas, or rather from the Island of Palmas to Cafe Corrientes, is 20 Ls: The Coast lies N. by W. and S. by E. but the Course to the Cape is full N.W. in a direct run. Cape Corrientes is a high round Mountain, with two Hummocks near the Top almost together. When the Cape is S.E. from you, one of the Hummocks looks like an Island or great Rock, separated from the Mountain it self; but when you come nearer, they are the same: They are seen out at Sea 12 or 15 Ls.

From Cape Corrientes to Port Quemada, or the Burnt Harbour, the Shore lies N.N.W. and S.S.E. a bold Coast, but no Harbour, nor is there any good anchoring upon it. Water is very deep, and the Ground rocky and foul; the dift. is 29 Ls, a wild and almost desolate Coast, no Rivers, Ports, or Towns in all the length, but low Illands drown'd by the Freshes, and some Rocks under Water also: So that we have nothing to fay of this Coast, respecting the Sailors, but that they should keep off of it as well as they can.

From Port Quemada the Coast lies more northerly towards Tort Pinas, the Course N. by W. dist. 12 Ls. Port Pinas is a high double Land, broken and uneven in Clefts and Ridges, as indeed is almost all the Coast, which you will see when you

are to the S.W. of it out at Sea.

A little within the Harbour of Pinas you will see 2 Rocks near one another; you may go into the Port on either side of them, but the best Channel in, is in the Middle between them. On the S. fide of the Harbour are four or five small Mands; give them a good Birth also as you go in, and at the Entrance you will see a great Bay; there you may come to an anchor in clean Ground: From thence towards the S.E. you will see a plain Strand, where the Town of Pinas lies on your Starboardfide, and a River call'd Rio Salada on your Larboard: Up the River you may have both Wood and Water; you may fetch it with your own Boats. In the Cove near the River you may

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Sailing Directions for the West Coast of New Mexi-Acapulco; and from thence to Maxantalla in the Coast of America.



HE City of Panama is situated on a finall navigable Creek at the Bottom of a large deep Bay, or Gulph of the same Name, opening due N. and S. to the great Southern Ocean, call'd antiently the Pacific, but by our Navigators the South-Seas,

from its position with respect to the Bay of Mexico and the Gulph of the Honduras, which lie due N. from it: Tho it is otherwife more properly the Western Ocean, as it lies parallel with

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Careen, but you must go well arm'd, especially if you go far up within the River, and be cautious of the Natives, who are cruel, treacherous and thievish.

The Harbour is call'd Port Pinas, from a great Number of large Pine-Trees, which grow upon the Coast, as well here as

all the way fouthward to Cape Corrientes.

From Port Pinas the Land stretches out more westerly again to Cape Garachina, dift. 7 Ls. The Coast between makes fome Openings, and a little Variation to the northward, but in general lies N.N.W. and S.S.E. In the Midway between there is a fmall Cove or Bay, call'd Caracolus, with a fmall Island before it, but of no Importance: This Cape Garachina and the opposite Cape Mala lie in a strait Run due E. and W and make together the Mouth of the Gulph of Panama; all the Islands of the said Gulph lying within them, and which are described in their place.

N. B. Cape Garanchina is in Lat. 7 d. 20 m.

From this Point of Garachina goes in the great Gulph of St. Miguel, or Michael: The opposite Point is that of Cape Lorenzo. Cape Lorenzo and Cape Garachina lie with one another N. by E. and S. by W. dift. almost 20 Ls. Between them goes in the faid Bay or Gulph of St. Michael: It goes in due E. but when in, bears a little northerly about half a Point. Into this Gulph comes the River of St. Mary's, which being opposite to the great Gulph of Darien on the N. Coast of America, makes the Passage by Land between the two Gulphs which is call'd the Ishmus of America, exceeding narrow, The Entrance into the Gulph of St. Michael is in Lat. 7 d. 30 m.

From this Bay of St. Michael the Land rounds away first N. by E. then N. then goes on gradually rounding to the N.W. and at length lies due E. and W. to Panama it felt, without any confiderable Place on the Coast between; for the Navigation of the great Bay of Panama feems to be chiefly concern'd with the Islands of the Bay; and the Channels by which Ships pals in or out, lying thro' between those Islands, the Coast of the Main, especially on the E. side, is much unfrequented, as it is out of the way, and also as it is a foul dangerous part of the

Main, without Harbour and without Shelter.

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Taboga is a high Land very woody, not above a L in Circuit, lying N. by E. and S.by W. with Port Perico: There is a good Road on the S.S.E. fide of it; and tho the Island is so finall, there is a Creek of good fresh Water, and convenient to come at with Boats; the Ground is good to anchor in, and in the Road is 12 to 18 Fa. Water.

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from its position with respect to the Bay of Mexico and the Gulph of the Honduras, which lie due N. from it: Tho it is otherwife more properly the Western Ocean, as it lies parallel with the West Coast of America, and opposite to the great Atlantick Ocean, which is due E. from it.

This Gulph of *Panama* has a vast resort of Shipping to every part of it, the Port of Panama being the best in all the South-Seas for Trade, as it receives most of the Goods which come from and to those Seas, and deals with them over land to and from Europe.

S.W. from the City, in the Offing as it were of the Port, lies Porto Perico, in an Island, and at the dist. of 2 Ls from the Shore: The Harbour is form'd by three Islands lying N. by W. and S. by E. from one another, and where most of the Ships bound in or out of *Panama* come to an anchor, and ride for a Wind.

Between this Port and Panama, almost Midway, lies a very dangerous Shoal of Rocks, where many good Ships have been lost notwithstanding it is so well known, and many more that have ilruck have been gotten off again, but not without great Difficulty and Damage. This Shoal and Port Perico lie with one another N.E. and S.W. Bring the Hill of Patilla to bear from you due 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, leaving it to the W.

In the Mouth of the Bay of Panama lie several larger Islands, besides some smaller; they are call'd all together the Pearl Islands, but have particular Names also, as the Isla Chuche and Isla del Rey. The Isla Chuche hes with Panama due N. and S. It is the largest of the Pearl Islands, and the most westerly: It is distant from Panama 15 Ls, from the Island of Pacheco 9 Ls N N.E. and S.S.W. 5 Ls from Otoque N.W. and S.E. and 12 Ls from Taboga N.N.W. and S.S.E.

N. B. Otoque and Tavoga lie in the Fair Way from Panama to the Punta de Chame, or Point Nata, which is the W. Point of the Mouth of the Bay, and which all thole Ships make that are bound to the NW. Coast of America, and to sicapules. They are diffant from one another 4 Ls N N.E. and S S.W

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Near it is little Taboga, a smaller Island, which the Spaniards call Taboguilla; the Channel between is very narrow but good, and the Ships pass that way to the Punta de Chauma. In passing thro' here, observe to keep nearest the great Island, to avoid a rocky Shoal on the side of the Taboguilla; you will know it tho it be under Water, by the Sea breaking upon it: nor must you go too near the Head-land of Taboga, in passing this narrow Channel.

When you are the length of Otoque, if you are bound about to the northward, coast along in fight of the W. Shore, but at a good distance, steering S.S.W. towards Morro de Porcos, or the Hogs Strand: Then you will have a fight, if it be clear Weather, of the Punta de Chauma, and open the Bay of Nata, just under the Head-land of the Cape. If to the southward, take a Pilot to the Island of Gorgona.

The Bay of Nata is a spacious deep Bay; but you must not venture in, unless forced by necessity, because the Winds blowing long at E. upon this Shore, you may be embay'd, and be long getting out. The Bay reaches to the Island Iguanas, under the Lee of which Island is good anchoring, well shelter'd

from S.W. Winds; and to the windward of it also there is a good Road, in a Creek between the Island and the Main. From Otoque to this Island Iguanas is 2 Ls.

From the Island Iguanas to Punta Mala is 2 Ls S.W. To the Leeward of the Point is a Cove, where there is a good Road, secured also from S.W. Winds. If you would go into this Road, you must keep close along under the Head-land, and then ride where you please: At this Point the Land call'd Nata trending N. and S. ends; and then rounding the Point, the Coast goes away N.W. to Point Higuera, or as in some Charts Haguera: The dist. from the Road under Cape Chama is 7 Ls.

This Point of Haguera is a Ridge of high Rocks, which run tapering out into the Sea till they come to a Point; and under the Lee of that Point is good anchoring, and well fecured from S.W. Winds: It is all a clear Strand, good holding-ground, and a clean Bottom, and which is something rate on

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Sailing Directions for the V

all that Coast till you come thus far : here you have excellent

wooding and watering.

Two Ls short of Point Higuera lie two small Islands, call'd the Frayles, or by some the Padres or Fryars, about half a L dist. from one another, and the nearest of them 1 L dist. from the Shore. On the out or off-side of the outmost of those Islands lies a Shoal of Rocks under Water, which the Sea usually breaks much upon with a S.W. Wind.

Likewise between the said Point Higuera and Morro de Porcas lies a Shoal of Sand under Water, which the Sea breaks upon also with a great Noise upon a S.W. Wind; it reaches out a L from the Shore, and tails quite round the Point; but as soon as you are clear of that Sand, you have 15 Fa. Water. The Morro de Porcas also makes a Bay to Leeward, in which

there is good anchoring in case of a S.W. Wind.

N. B. A S.W. Wind makes a Lee-Shore upon all this Coast. It is from this Head-land call'd Morro de Porcas, that Ships stand off to Sea, or take their Departure (as we call it) for their Course S. to the Coast of Peru, steering first S.S.E. to the Island of Malpelo, and from Malpelo S. to the said Coast of Peru. Malpelo is a small Island, 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 cross the Bay of Panama to the Coast

of Peru, take the following Oblervations:

If you are in the Season of the S.W. Winds, and obliged to turn it thwart the Bay, make the most of your westward Trip, shortening upon all your Trips to the S.E. because as you are bound to a Coast 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.

Also observe, that if the Currents which are very strong there, should hurry you the length of the Island Gorgona, you may know the Island 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 o-

ther Land near it.

From Morro de Porcas to Point Mariato the Coast lies E. and W. dist. 12 Ls. All the way between you see the Mountains of Guanico, ranging along to the westward, 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 lie: And on the highest part of them is a large round Hill, with a Break on the W. side.

The Point Mariato also is high and mountainous, and has a little Rock to the westward close by it: The Coast is steep and rocky. To coast from this Point of Mariato to Nicaragua, you take the following Course: From Point Mariato to the Island Schaco is 3 Ls, and the Island it self 5 Ls more N. and S. At the N. Point of the Island is a Shoal; on the W. side is the Island Governador; and on the W. side of the Governador, and close to it, lies a Channel thro; leading into the Bay of the Philippinas.

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. Come not into less than 6 Fa, lest you are lest a-

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River, having 10 to 12 Fa. Water the Island and the River bearing with one another N.E. and S.W. There is a low Point just within, call'd, as above, Rhenchiera, where they usually build Ships; and about Musket-shot farther up is the Anchoring-place. From thence to the Spaniards Town call'd Rhenchiera it is 3 Ls up the Stream, but you may see the Town from the Road.

N. B. There is no Channel between the Island of Puebla Nueva and the Main, the Place being full of Shoals, and the Sea breaking continually upon them.

You should observe, that as all this Course is round the Bight of the Bay, so the Course cross the Bay is also well known by Ships which have no business into the Bay. This Course lies from Morro de Porcas to Point Burica N.W. and N.W. by W. the dist. 38 Ls.

From this Point Burica to Cape Blanco the Course is likewise N.W. This is the Course leaving the Bay, and sailing from Point to Point in a strait Run.

But to Coast the Bay, in which are abundance of Islands observe that from Puebla Nueva S.W. lie the Isles de Contreras, dist. 4 Ls, and to the W. of them other Islands call'd de Secas, or the Dry Islands; from thence to Chiriqui is 4 Ls, the whole dist. 11 Ls: At this Point of Chiriqui ends this long Coast and Bay, which lies with the Islands Canales E. and W. but with the Main N.W. and S.E.

The Mouth of the River here is full of Islands close to the Land: if you would go up to the Town, you must have a Spanish Pilot, or found the way for your self as you go. At the Islands off of the River Chiriqui begin another Bay, which runs away W.N.W. to the Point Burica, and then the Coast trends northward again. This Bay from the Islands to the Point is 6 Ls over.

On the N. fide of the Point, and within the Bay, is a small Road, where is good anchoring in 6 to 8 Fa. and a small River or Creek, where you may have plenty of fresh Water. As you go from this Anchoring-place to seaward N.W. you will see some Ridges of Rocks near Point Burica. A little to the northward of the first Ridge is Port Linnones; it goes in at a small River but deep, and Ships may go into it with safety, the Entrance lies just 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 several Flats off from the Point running out a L into the Sea, which by this means you may shun. From Point Burica to Gulpho Dulce, or Golfo Dulce, that is Fresh-water Bay, is 4 Ls; the Coast lies N.W. and S.E. and from Gulpho Dulce to the Island del Cano is 7 Ls, lying in the same Course.

This Gulfo Dulce is an excellent Road, for you have good anchoring any where and well fecured: Here is plenty of Wood and Water almost 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 must be on good Terms with the Spaniards, or be very careful how they trust them.

From this Island del Cano to another Indian Island in the Bay not inhabited by Spaniards, is about 4 Ls; and from that Indian Island to the River de la Estrella, or the Star River,

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.

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Going into this Bay keep your Lead in your Hand, and grounding all the way, for there are many Banks of Sand all the way in. Come not into less than 6 Fa. lest you are lest a ground upon the Ebb. If you would go to the Town of Philippinas, which lies up a River that opens in the Bottom of the Bay, you must anchor to Leeward of the Isha di Leones or the Isle of Lims, that is, on the N. side of it; the Channel is close under the Main: Anchor at the End of the Island a little to the westward, but come not near the Island it self because 'tis shoal all about it.

The River of *Philippinas* goes up 2 Ls, navigable by large Vessels. First let your Course be N. to the Mouth of the River; you will know the Opening of it by a high Wood of Mangroves. The Town lies 3 Ls up the River. The Bay has many more Islands in it, and consequently several Channels a mong them: The best Channel out, is that to the S.E. end of the Governador, for there are no Dangers but what are in sight. On the out side of the Island you may ride well secured and have good anchoring ground in 15 to 20 Fa.

E. from the Island Sebaco the Land trends E. and W. as fa as the Island Canales, and lies low to within 4 Ls of Canales. From Sebaco to Quicara the Course is S.W. dist. 15 Ls. The southward of the Island Canales is the Island Corbo 18 Ls in length, and near it another smaller, call'd Islande Rhenchira.

N. from the Island of Canales is a Bay call'd Baia Hondor the Teep Bay, a very good Harbour, Land-lock'd from a Winds, and having 15 to 20 Fa. in the Watering-place. The distance from the said Island is 2 Ls N. from whence the Coarmus on to Chiriqui. Midway between them is the Town of Puebla Nueva, or New Town. From Baia Honda to the Puebla Nueva the dist. is 7 Ls, the Course N. by W. Right before the Mouth of the River, which goes up to the Town lies an Island call'dby the same Name, about 1 L from the Main The Channel runs on the E. side of this Island directly up the

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From this Island del Cano to another Indian Island in the Bay not inhabited by Spaniards, is about 4 Ls; and from that Indian Island to the River de la Estrella, or the Star River, is 5 Ls, the Course the same still, viz. N.W.

From the Island del Cano thwart the Bay, and not in the Bight, to the Cape Herradura or the Horse-shoe Point, is 16 Ls; and from the River de Estrella in the Bight or Bay to the Herradura is 11 Ls. This Coast was antiently call'd Coasta Rica, or the rich Coast, inhabited by the Buriaco Indians and the Creolian Spaniards.

In this Bay the Sca runs so very high, that it is sometimes dangerous Riding in it, tho the Wind does not blow hard; the Mouth of the Bay lying directly open to the vast Southern Ocean S.W. by W. and S.S.W. The River de Estrella is about a Mile and half wide at the Entrance, and small Ships may go in for about 2 Ls.

From the Herradura lies the Island of Chira, the Course N.N.W. and S.S.E. the dist. 15 Ls. In the Midway lies a Town on the Coast call'd Landecho, inhabited by Spaniards. This is a good Country to get Provisions, nor are the Indians backward to supply you for Money, if the Spaniards will permit them, and even without the Spaniards Consent too, if they can do it privately.

Two Ls beyond Chira lies the River Cipanso, 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 Island of Chira article fresh Water and Provisions in great plants.

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Close by the Isle of Chira is another smaller Island inhabited also by Indians, which is sull of Cattle, as Chira is, especially Sheep and Hogs. On the N.E. side of the Island lies a Bank, which is sometimes dry, but at other times the Sea washes over it. To go into the Road of Chira, keep close to this Island, leaving all the other Islands W. of you, the Main being on your Starboard-Bow, except the small Island where the Bank lies:

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The Channel lies between it and the other Islands up to the Town; there you may anchor in 10 Fa. and be supply'd with Water and other Necessaries.

N.N.E. from Chira lies the Island of St. Luke, dist. 8 Ls. In the way are three Islands, call'd Islands de en Medio, or the Middle Islands, probably because they lie midway from Chira to St. Luke. From Chira to these Middle Islands 'tis all shoal, not above 6 to 7 Fa. Water any where. Ships sailing this way, whether to the northward or southward, should always borrow of the Islands, keeping nearer to them than to the Main.

Not far from these Middle Islands, and nearest to the outmost of them, lies the Island Guayavas, where there is also plenty of Provisions and Fruit, and you may be supplied at all these Islands, of which there are very many in this Course; and the nearer Cape Blanco, the more small Islands you will find, and most of them close by the Main.

From the Herradura, mentioned before, to Cape Blanco, or the White Cape, is 20 Ls; the Course lies due N.W. and S.E. the Shore of the Main stretching away westerly to Cape Blanco.

N. B. Cape Bianco and the Island Canoe bear with one another N.W. by W. and S.E. by E. and Cape Blanco and St. Luke N.E. by N. and S.W. by S. dist. from them both about 9 Ls.

N. B. On the Shore opposite to St. Luke they usually lade Mules with Provisions, and also with Merchandize, to go

over-land to Panama.

Cape Blanco is high Land on that side next the Sea, but slopes away on the Land-side, and makes a Table up towards the Mountain: From off Sea, at a distance, it makes like an Island. It lies in 10 d. N. Lat. you may know it by a little Island without any Name lying close by it, on the Top of which is a large black Spot, being some Trees always verdant, but so thick, that they look black at a distance.

N.W. from Cape Blanco lies Point Guiones, dist. 10 Ls; and in the Midway between are two Shoals, which run out a full L directly into the Sea, being equally distant from the Cape one way, and from the Point the other way. Point Guiones, which way so ever you come towards it from the Sea, makes like a Helmet or a Steel Cap: Close to it is a small Island well worth notice, because there are Shoals and soul Ground all about it, every way; therefore you must take care to give it a good Birth: Also in the Bay between the said Point and Cape Blanco are some white Rocks under Water, and some above; its best there are to keep out without them.

N.N.W. from Point Guiones lies Morro Hermosa, that is, the Beautiful Head-land or Point: It is a clean fair Coast all the way, and the dist. 8 Ls. The Head-land is high and almost perpendicular, as a Wall; you will see the Sea beat upon

it some Ls before you come to it, for it is steep too.

Seven Ls dist. from Morro Hermosa lies Port Velas, or Porto Velasco; the Coast lies N.W. by N. and S.E. by S. The Port lies up within the Land, and has fresh Water; but the Land between the Town and the Sea is low, and not to be seen at Sea, till you are almost upon it: You will know it by the following Marks, viz. (1.) Three Ls before you come up to the Harbour, you'll see three or four Rocks in the Sea

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Mark to know it by is a Table of about 2 Ls long, on a Hill near the Port; this they call St. John's Table. From Point St. Catherine to this Port of St. John is 15 Ls, the Courle N.W.

You must be careful of this Bay del Papagayo, if you happen to be here any time between November and April: For as the N. Winds reign, as the Seamen call it, in those Months on all this Coast, they make a Sea so high, that a Ship can hardly live in it; be sure therefore to keep close under the Lee of the Mountains, and under Shore; for the high Lands breaking off the Wind, especially on the most northerly Coast of the Bay, you have it tolerably smooth under Shore, only a great Swell.

In the Middle of this Bay comes in a fresh River, but the Sea goes always so high you cannot come near to get any Water. In the Entrance of *Port St. John* you are shelter'd from those 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 so high and steep; so that at held 'right an indifferent Port.

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N.W. from this Port St. John, dist. 15 Ls, lies the City of Realejo, upon the Coast of Granada. From this Port of St. John, begins the great Range of burning Mountains, which are seen a long way to Sea, and are Marks for the Coast 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 those which are really on Fire often seen to break out, but sometimes they do make Eruptions, and the Spaniards say they are all on Fire within; however, they are call'd so, and are known to the Sailors by the Name of the Burning Mountains. They are seen 12 to 15 Ls off at Sea, and when any of them break out, they are seen much farther, besides that they stand some Ls within the Land.

The first of these Mountains to the northward of St. John's Port is the Volcano de Leon, which is seen near 20 Ls at Sea, and ordinarily throws out Clouds of Smoke when it does not slame, so that it is known by it at a distance. Near this Port St. John, and in the height of the Hill de Leon, a sresh River, call'd la Tossa, comes into the Sea, and the Water is to be come at with ease, 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 Course N.W. or N.W. by W. Here begins a high Ridge of Land, running along with the Sea for 3 Ls in length, plain on the Top, and smooth like a Carpet, but a little rounding in the Middle; it is call'd the Level of Tosta, or the Ridge of Tosta. Over this Ridge you see the Volcano of Telica, bearing with the Ridge N.N.E. and S.S.W. From the northermost End of this Ledge it is 4 Ls to Realejo N.W. and S.E. the Shore slat and low, but the Water deep and the Ground clean from Rocks or Shoals: Also there are in some 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 dist. is 6 Ls; and there are two other Volcanoes between them, but not so great,

which way to ever you come towards it from the Sea, makes like a Helmet or a Steel Cap: Close to it is a small Island well worth notice, because there are Shoals and soul Ground all about it, every way; therefore you must take care to give it a good Birth: Also in the Bay between the said Point and Cape Blanco are some white Rocks under Water, and some above; its best therefore to keep out without them.

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From Port Velas the Coast, which is very full of Points and Bays, and therefore of different Bearings almost for every L, bears W.N.W. and E.S.E. to Point St. Catherines, dist. 8 Ls. This Point of St. Catherines bears with Point Guiones N.W. and S.E. and is in a direct Course 22 Ls dist. from it; but if you go into the Bays and Bights by Port Velas and other Places

on the Coast, 'tis near 30 Ls.

Off of this Point St. Catherine, 2 Ls at least into the Sea, stands a high Rock, and between these Rocks and the Main without the Point are two little Islands; and again, within the Point on the side of the Bay are two other little Islands, bearing S.E. from the first two, and dist. from them about a L. By all these Islands and Rocks the Point is known, and the Course directed.

At this Point begins Papagayo Bay, or the Bay of Parrots, firetching out N.W. almost 16 Ls; in the Middle of which over the Land, tho making at a distance as if it stood in the Sca. you will see a Volcano or burning Mountain, which is near the City of Granada on the side of the Lake of Nicaragna, and may be also seen, as some report, into the North-Sea, or at least far into the Lake towards the Sca. It is cleft down almost from the Top to the Bottom like a broken Saw; 'tis call'd Bombachio, and by our Sailors, the Devil's Mouth.

N.W. from this frightful Hill, dist. 5 Ls from that part of the Land over which it appears, lies Port St. John. The

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From this River to Realejo is 8 Ls, the Course N.W. or N.W. by W. Here begins a high Ridge of Land, running along with the Sea for 3 Ls in length, plain on the Top, and smooth like a Carpet, but a little rounding in the Middle; it is call'd the Level of Tosta, or the Ridge of Tosta. Over this Ridge you fee the Volcano of Telica, bearing with the Ridge N.N.E. and S.S.W. From the northermost 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: Also there are in some 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 Tequantepeque.

From the burning Mountain Telica, to the Volcano del Veja, or the Old Man's burning Mountain, the dist. is 6 Ls; and there are two other Volcanoes between them, but not fo great, nor do they often smoke. 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 distance is such and such from any Port on the Coast to any of these burning Volcanoes, it is to be understood of the Distance to the Shore oppofite to those Volcanoes, which are generally 6 to 9 Ls up within the Country.

The Volcano Veja, or the Old Man's Mountain, lies 7 Ls up the Country, and bears with the Bar of Realejo N.E. and S.W. This Port of Realejo is the most in use for Shipping of any in all these Seas, especially between Acapulco and Panama, Ships coming to it from all parts of the South-Seas. If you are bound in, and stand for the Bar from out of the Sea, you must come up close with the Land to discover the Harbour; for the Coast being all a low flat Country, and much overgrown with Trees, unless you come to near as to fee the fandy Strand which lies all along under the Shore for 6 to 7 Ls; there is no discovering the Port,

You must therefore be first sure you are in the Latitude of the Bar, and when you are a breast of the Port, stand right in, for which take this fure Mark: Bring the Volcano del Veja to bear N.E. from you, and then stand boldly with it for the Harbour; in that Course you will soon see a low Island about half a L in Compass, which is flat on the Top, and cannot be seen till you are within a L of it. That Island lies in the very Mouth

of the Harbour.

That Island indeed shelters the Port, and makes it a Harbour, for it breaks off the Sea, which would otherwise 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 first is by far the largest, but the other the sairest and best

Sailing Directions for the West Coast

Channel, clearest of Rocks, and the deepest Water; so that no Ships go in on the S.E. side but small Crast, Sloops, Barks and

Periaguas, &c.

In the N.W. Channel you have 5 to 6 Fa. Water, and 4 at the lowest Ebb. If you would go in, keep your Starboard-fide close up to the very Rocks on the side of the Island; 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 should blow hard; for if there be but Day-light enough, you may lead it up at pleasure; for tho it should be an Ebb, and that of a Spring-Tide, yet there will be Water enough.

If you are got in with your Broad side to the Island close up to the Rocks, and are at a loss, and cannot get a Pilot, for they are not always at hand, then let go your Anchor right with a Parcel of Ground in Spots, over-grown with Thistles and loose Shrubbage; and riding there till low Water, you will then see the Flats in the Channel lie bare, and will know the better how to avoid them upon the Flood; and so may go up with safety.

Having thus mark'd out the Channel, weigh at about an Hour Flood, and strike over to the sandy Point which lies towards the Main on the Larboard-side, for the Channel runs that way; and keep on so, sounding all the way in 6 to 7 Fa. till you come up to that sandy Point: Then run along the same Shore next the Point, and let go your Anchor in the midway over, for that is the best of the Road.

The Town is 3 Ls up the River: If you would go up with your Boat, there is another Course than that directed for your Ship, viz. First keep up to the N.W. or Larboard-side of the River, as before, till you come to a Creek; pass that, and hold on to another farther up; pass that also, till you come to a third, which seems to be smaller than the other two. Go in there, and sollow the Course of the Creek about 1 ½ L, it will

bring you up to the Town, close to the very Houses.

From the Bar of Realejo to Consibina is 12 Ls, the Coastlying W.N.W. and E.S.E. When you depart Realejo, shape your Course S.W. till past the Island de los Aferradores, or of Sawyers, which is 4 Ls from the Bar of Realejo. That Island is small and plain, and must be lest to the N.E. Close to it, on the S.E. side are two Rocks, and near them is the Mouth of a Creek, called also de los Aferradores, or of the Sawyers; up which, Boats can pass at high Water. From thence the Shoals run out a L to Sea, one L beyond the Island de los Aferradores, 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 Messa de Roland, that is, Orlando's Table.

From Messa de Roland to la Consibina is 7 I.s, the Coast low and wooded, and about a L up the Country is a Hill, which bears the Name also of la Consibina; it was formerly a Volcano or burning Mountain, and burst open, since when the upper

Point has remain'd hanging as if it would fall over.

Consibina and Volçan del Viejo, or the Old Man's burning Mountain, bear from one another E. and W. At the Port of Consibina there are Docks for building of Ships, and they

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finall Ships may go up it. N.E. and S.W. within it there is a great burning Mountain, called also of St. Michael, lying up the Inland 5 or 6 Ls in an open Plain, which has no other Eminence about it: This Mountain casts out Smoke, which may be seen out at Sea 20 Ls.

From the River of St. Michael, to that of Guibaltique, is 3 Ls W. the Coast is all low Land, sull of tall Mangrove Trees, next the Sea, with several Creeks. Many Shoals run out about a L to Sea from this River of Guibaltique, and the Extremity of it bears with that of St. Michael N.E. and S.W. and with Constina N. by W. and S. by E. dist. 18 Ls, all the Coast low and shoal, and the Sand-banks lie E. and W. Along this Coast 2 Ls out at Sea, you may anchor in 15 or 20 Fa. and will see the Country up within the Land is mountainous, and full of Hillocks sar in.

From the River of Guibaltique to that of Limpa, is all a fandy Shore, with a high Sea going continually on the Coast, the Land low, and the Water shoal; so that you may anchor, as has been said, in 20 Fa 2 Ls off the Land.

From the River of Limpa to Lacatecolula is 4 Ls: This is an Indian Town, but there are some Spaniards among them with whom you may trade: The Country about produces abundance of Cocoa. Near the Town is a great burning Mountain, of the same Name with it; it is 6 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 Coast of Tanela, or of San Salvador, that is St. Saviour: it is high Land next the Sea. The burning Mountain of St. Saviour is 10 Ls from that of Sacatecolula, appearing over the Coast of Tonela, which is an indifferent even Ridge of Land.

Four Ls to the westward of the burning Mountain of San Salvador, is a Hill near the Coast, called Bernal; and this and the said burning Mountain bear from one another E.N.E. and W.S.W.

At this Hill of Bernal commences the Coast called de Las Italias, and the high Land of Tonela terminates: and from hence the low Lands on the Coast run as far as Point Remedios, being 10 Ls, and is called the Coast Del Balfamo, or of Balfam, being a low Ridge level at the top, stretching along the Sca-Coast, and terminating before it comes to Point Remedios. Opposite to the end of this Ridge, bearing N. and S. with it, is an upright Hill lying 3 or 4 Ls up the Inland; it is stat at the top, and is called the Island 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 Sanfonate is 3 Ls; and this burning Mountain bears with Point Remedios, which is the Port of Sanfonate, or Sanfonette, N. and S.

Point Remedios is low next the Sea, and has a Rock standing up by it, about which there are many Sands, some of which run out above half a L into the Sea under Water: If you would go up to anchor in the Port of Sonsonate, be sure to give those Sands a sufficient Birth. Point Remedios gives Shelter against the S.E. Wind. N. B. All this Bay, which makes the Port of Sonsonate, is shoal, and therefore you must sound as you come in till the burning Mountain bears N. by

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go thence by Land to Realejo.

From the Point and Extremity of Consibina to Port Martin Lopes, otherwise called El Condadillo, or the little Earldom, is 8 Ls; and between them is form'd the Bay of Fonseca. running up far into the Continent; and there also is the Ferry which they cross over, who go by Land from Mapala to Volcan del Viejo: This Bay is 10 Ls over from Mapala to El Viejo. Some Ships put into it to load with Tar. or to careen, and there is every where 10 to 12 Fa. Water: You may go in boldly any where, as you have occasion: As soon as you are in, you'll see 3 Islands stretching out E. and W. 2 of them large, and the middlemost smaller; one of them is called La Canchagua, and other Miangola: you must make for Canchagua, which lies farthest W. of the three near the Continent, founding all the way as you go up, and come to an Anchor near 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 Island in the Nook of the Bay; but you'll readily find it; take heed your Cables be good, for the Tides run very strong. These Islands are inhabited by Indians, by whom you may be furnished with fresh Water, with spare Masts, and all other Opposite to the Island is the River, the Mouth Necessaries. whereof you'll foon fee, and on it abundance of Mangrove This River of Canchagua and the Trees, fit for any Ship's use. Point of Consibina, bear from one another N.W. and S.E. dist. 8 Ls. On the W. fide of this Bay of Fonfeca is a high and sharp 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. Michael, is 18 Ls, the Coast lying E. and W. high Land next the Sea, and without any Mangroves all the way to the River, in which there is 3 Fa. Water at the Flood, so that

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Italias, and the high Land of Tonela terminates: and from hence the low Lands on the Coast run as far as Point Remedios, being 10 Ls, and is called the Coast Del Balfamo, or of Balfam, being a low Ridge level at the top, stretching along the Sca-Coast, and terminating before it comes to Point Remedios. Opposite to the end of this Ridge, bearing N. and S. with it, is an upright Hill lying 3 or 4 Ls up the Inland; it is stat at the top, and is called the Island 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 Sanfonate is 3 Ls; and this burning Mountain bears with Point Remedios, which is the Port of Sanfonate, or Sanfonette, N. and S.

Point Remedies is low next the Sea, and has a Rock standing up by it, about which there are many Sands, some of which run out above half a Linto the Sea under Water: If you would go up to anchor in the Port of Sonfonate, befure to give those Sands a sufficient Birth. Point Remedios gives Shelter against the S.E. Wind. N. B. All this Bay, which makes the Port of Sonfonate, is shoal, and therefore you must 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-houses, you are in the best Anchoring-ground: you'll see the Store-houses upon a Crag, and then you'll be half a L from the Land; go no nearer the Shore than 11 Fa. for there are Water-Rats that gnaw the Cables, which you must be sure 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 ashore, for there is generally a great Surf: you must land near a parcel of Stones which are before a Cross in the Nook, or you will be in danger of staving your Boat.

From the Port to the Town of the Trinity is 3 Ls: If you would put into this Port of Sonfonate, you must first, while you are but at Sea, make the burning Mountain that has the top broken off, and looks whitish by reason of the great Quantity of Ashes about it. Farther on towards the N.W. is another little burning Mountain, call'd de le Paneca, dist. about 3 Ls from that of Sonfonate. Near this last are 3 or 4 little Sugar-Loaf Hills, bring them one in another, and then you go fair

with the Port.

To ride safe in this Harbour, you must keep the Ridge of Panaca N. by E. and S. by W. in 7 Fa. Water, and the Mouth of

the River N. and S. dist. a quarter of a L.

Between the Port of Sonfonate, which others call the Strand of Catalta, and the Strand of Estapa, the Coast lies W. by N. and E. by S. the dist. 26 Ls. This is the Port to the City of Guatimala. All the Coast is low Land, sandy and full of Mangroves next the Sea; but there is clean Anchoring-ground all the way.

From Catalta or Sonfonate to the River Maticaloe is 7 Ls. This River is much exposed to the northerly Winds: Opposite to it there are some small but 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 Coast, except only at this Place,

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Four Ls to the westward of *Moticalo* is another great River, which has 2 Fa. Water upon the Bar. From this River to the Bar of *Estapa* is 15 Ls. This River of *Estapa* and the burning Mountains of *Guatimala*, bear from one another N.E. and S.W. N. B. That the Land-marks to know this River of *Estapa* by, are the tallest Mangroves of the whole Coast growing about it; and in the middle of these mighty Trees, is the Bar or Entrance into the River.

The Bar of Eslapa and that called Tecuantepeque bear from each other N.W. and S.E. all low Land, and full of Mangroves next the Sea; but high, and with many burning Mountains up the Country. From the Bar of Estapa to Tecuantepeque, which others call Sequetopeque, is 65 Ls, as particularly mention'd below.

About 15 Ls from Estapa towards the N.W. is another burning Mountain: It is upon a Ridge of very high Land, in the highest part of all which the burning Mountain shoots out; it is call'd the Volcan of Sapotitlan.

From Sapotitian to Malpas is 12 Ls. These are two other burning Mountains; all these are within Land, but are high Marks to know the Coast by, and to direct the Sailors, being seen far at Sea.

From these burning Mountains of Malpas to that of Soconusco is 12 Ls also: This is a low burning Mountain, lying near the Sea-Coast, which is also low there.

From the burning Mountain of Soconnsco to the Encomienda, or the Hill of the Cross, is 7 Ls. This Hill of the Cross is but low; it is dist from the Sea about half a L, and on it is a Cross form'd by the Greens growing on the Flat, which is to be seen the Year about; and therefore it is called La Encomienda, or the natural Cross. There is good anchoring all along this Coast; and at this Hill of the Cross Ships take shelter when the N. Winds are boisterous, or else at Tecuantepeque, if they cannot reach to Bernal, or Port Mosquitos.

From La Encomienda to Barnal, which is the Entrance into the Bay of Tecnantepeque, is 5 Ls. The Mountains appear running out from the Inland. Towards Bernal and the Sea, till within half a L of it, as you come coasting from Soconusco, this Point seems to run out into the Sea, and the high Land to terminate there; but it does not, but returns up the Inland towards the N.E.

This Hill of Bernal and the River of Samilitam bear from one another E. and W. dist. 41 Ls, as follows, viz. From Bernal to Port Mosquitos 9 Ls, low Land, wooded with Mangroves. In this Port Mosquitos Ships anchor when the N. Wind rages; and from it runs 1 River, which puts out many Banks of Sand towards the N.W. and there is a great Surf on them, tho the Sea does not run very high on the rest of the Coast, all this Country about being liable to Inundations. Three Ls up the Inland are some higher Grounds which look like Islands, the Water often flowing about them when the Freshes or Floods from the Country are high.

From Por Mosquitos, to the Bar or Port of Tecuantepeque is 8 Ls: near the Bar is a parcel of losty Hillocks, being Mande in the River, by which it is known where the Bar lies.

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other Spots of white Sand all along the Coast, except 2 or 3 at Salinas. On the top of all the Head-land is a Peak like a little burning Mountain, which is seen 10 to 12 Ls out at Sea; and near the Head-land in the Water 1s a dangerous Bank of Sand.

From these Head-lands of *Macatan* to that of *Bada* is 4 Ls; and close by it is a dangerous Shoal a L out at Sea, and they bear from one another N. and S. It is all high Land and Rocks,

and next the Sea fandy Strands at certain distances.

From the Head-land of Banda to the Island of Itata is 3 Ls: This Island of Itata is close up by the Land, within a quarter of a L, between them, in that Space, is good Anchoring, sheltred from all Winds; the Island is simall and white, and is clest in the middle. Half a L from the Head-land is a fresh Water River, and an Indian Town: The Coast is bold, and tho the N. Wind blows you may land very safely.

From the Island of Itata to Point Artela is 7 Ls, most of it sandy Strands; and between the Island and the Point is the Town of Guama a L up within Land. Short of Point Artea is a Farm of black Cattle, where is also Water and other Necestaries: if you have occasion, you may safely land at this Point of Artea, unless the S.E. Winds blows, for that makes a great Surs. This Point is low, and at a dist. looks like a little Island; it affords Shelter against the N.W. and W. and S.W. Winds; all this Coast lies W. by S.

From Point Artea to the River of Samilitam is 4 Ls, where is an Indian Town also, with fresh Water, and what else you may stand in need of. Going along the Shore where the Strand ends, is the River, where you may water, so: there is no great Sea goes there; and there is a Creek within the Point, where your Boats lie quiet.

From the River of Samilitam to the River of Copalita is 2 Ls; this is a great and deep River, and along by it runs the Road from Guabaca to the Sea; there is Anchoring-ground all along this Coast, the Land clean and level, and the Shore clear from Rocks.

To the westward of this River of Copalita is the Harbour of Guatulco, the Port to the great Cities of Mexico and Guaxaca, a safe Place and shelter'd against all Winds except the S.E. The Mark to know this Port by off at Sea, for it is close hid up, is a L before you come to it, a little round mountainous Island, called Tangolatango. At the Mouth of the Harbour is another little Island without any Trees: A little farther to the westward is El Puscalero, that is, the Roaring Place; and when the Wind blows you will hear it roar a great way off. If you come in from the seaward, you'll see a high Mountain just before you: then make for the Harbour, keeping the highest part of that Mountain right a-head. When you are in the Harbour of Guatulco, keep to the E. side, and anchor under some Hills which lie near the Shore, for there is most Water and best Shelter.

There is a fine Strand runs from the Port of Guarulco to Calluta, whither the Boats go for Water: you'll fee a little Island to the westward, where you may anchor while you fetch Water. About a L to the westward of this Watering Island is another Island, and to the Landward of it is good Auchoring-ground, the from all Winds: it is called Specifical, or the Island.

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From Port Mosquisos, to the Bar or Port of Tecuantepeque is 8 Ls: near the Bar is a parcel of losty Hillocks, being Islands 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 Morro del Charbon, or the Head-land of Coals, tho we do

not find there are any Coals there about.

From the Bar of Tecuantepeque to Le Ventofa is 4 Ls; this is called Cape Ventofa, that is, the windy or stormy Cape, because it lies open to the Westerly Winds, which are there very boistcrous. Here Ships take in the Cannon and other Stores which are brought down by the River of Guafacalco from the N. Sea, (there being but 9 Ls of Land Carriage between) for the use of Ships bound to the Philippines: The Ships that are to cross this Bay of Techantepeque usually come to an Anchor, as has been said, at Bernal, Port Mosquitos, or any other Place about the Bay. When you are to cross this Bay of Tecuantepeque, be sure to keep as close under the Land as you can, for the farther you are out at Sea, the worse it is; and contend not with the N. Wind, for Ships are frequently loft by fo doing, or at least 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 steer due W. You ought to be but 2 Ls from the Land of Bernal, when you cross this Bay, and always keep up towards the Land, as above.

From the Bar of Tecuantepeque to Las Salinas, or the Salt Pits, is 6 Ls, the Coast lying E.S.E. and W.N.W. At these Salt Pits the low Land terminates, and before them are two high Rocks, to the Landward of which is a Harbour for Ships. Hence they carry Salt to Tecuantepeque for all the Inland Country.

From Salinas to Puerto de los Angelos, or Port of Angles, is 33 Ls, the Coast lying W. by N. and E. by S. from Salinas to Quatuleo 25 Ls, all clean Anchoring-ground, and a fase

pleafant Coast.

From Salinas to the Head-land of Macatan is 2 Ls. At this Head-land a fresh Water River falls into the Sea; the Head-land it self-next 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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There is a fine Strand runs from the Port of Guatuleo to Calluta, whither the Boats go for Water: you'll fee a little Island to the westward, where you may anchor while you fetch Water. About a L to the westward of this Watering Island is another Island, and to the Landward of it is good Anchoring-ground, fase from all Winds; it is called Sacrificios, or the Isla of Sacrifices; and there also you may water, with great Conveniency.

From this Island of Sacrificios to the River of Coinla is 3 Ls, a deep Coast, and bad Landing, because of the Surge of a high Sea on Shore.

From this River Coinla to the River of Julian Carrafeo 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 Tortoife, about a quarter of a L from the Main and half a L from the River bearing from one another N.W. and S.E.

Between the River of Julian Carrasco and Puerto de Angelos, or Port Angels, is a Creek which affords very good Shelter for small Vessels: To the S.E. from this Creek there runs out into the Sea a Row of little high Rocks, about half a L; there is no fresh Water in that Creek, or near it. In the way from it, fhort of Port Angels, 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 Angels is a very good Harbour; and within it on one fide is a Creek. The S.E. fide of this Harbour affords better Shelter than the other; it is a high Land on both fides; but towards the S E at the Mouth of it is a high Rock, and up some way in the Creek a Brook runs down to the Shore, which is so fandy that the Stream is lost in the deep Sands; a little higher you may fee the Brook run down, and a Ground of Reeds in it. In this Port there is some Wood to be had, but not much.

From Port Angels to the River that runs by le Galera is 3 Ls; and here terminates the Coast, bearing E.S.E. and W.N.W. From this River de la Galera runs a large sandy Shore, and above that Shore are abundance of Mangroves, so large that they may serve to make Masts for Ships; and they extend about 2 Ls: The Coast is upright, with good Anchoring-Grounds all the way; and within the Land divers Hills and Dales, with greater and lesser Strands stretching on towards Le Galera.

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Sailing Directions for the West Co

From the River de le Galera to that of Massia the Course is N.N.E. dist. 18 Ls. This is a fresh Water River of a pretty long Current; it swells much in the rainy Seasons, and those Swellings are of long Continuance. There is a Town upon the Bank of the River called also Massia: half a L without the River there is a small Island and a parcel of little Rocks; you must keep at a distance without those Rocks.

From the River Massia to a Point which lies 2 Ls to the westward, is a little Rock which is very dangerous; and behind the said Point a little Rivulet runs into the Sea. When the Wind blows at N.W. you may go ashore there for Water, which is to be had to the S.E. of the Point, where the Sea is still, and

makes very little Surf upon the Shore.

From this Point and River to Puerto Escondido, or the Hidden Harbour, the dist. is 8 Ls. Puerto Escondido is a small Bay, having a Point which runs out into the Sea half a L beyond the Shore: and a little way within that Point is a small Island, which closes, and makes the Harbour. There is good Anchoring to the Landward of that little Island, tho the W. and S.W. Winds should drive in; and you may safely go ashore in your Boat.

From Puerto Escondido to Pesquerio de Don Garcia, or Don Garcia's Fishery, is 30 Ls, the Land all Vales and open Strands, without any Harbour. Ten Ls to the westward of Puerto Escondido, before a parcel of Crags, which you will see above Water, there are many dangerous Shoals, which run out 2 Ls into the Sea, and shew themselves at the Bottom; for there is but a Fa. or a Fa. and a half Water upon them at the lowest Ebb: Take heed of them, for they lie above 2 Ls in length. The Crags and they, bear one from another N. by E. and S. by W. dist. 2 Ls.

From these Crags and Shoals to the Port of Acapulco is 2 Ls, the Coast lying W.N.W. and E.S.E. Three Ls to the westward of the Shoals is a little white Island, where there is good Anchoring-ground, and it is called the Island of Alcatrases, being half a L from the Continent. To the westward of the said Island is a River, which runs out as far as the Island, and there Ships may water; the Coast is mountainous, and the Shore upright: Between this Place and Acapulco are abun-

dance of Crags, and broken Rocks on the Shore.

From this River to Don Garcia's Fisheries, is 15 Ls, a spacious Shore, stretching out as far as Port Marquis, which others call Puerta Chico, or the Little Port. Near these Fisheries are 2 little Rocks, and a fresh Water River, the Place generally very still; but when the Sea swells with an easterly Wind, it

is very boilterous.

Between these Rocks and the Port of Acapulco the Coast 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 you'll see 4 Mountains, the first next the Sea somewhat low, but the others rise higher gradually behind one another; on the highest is a burning Mountain towards the S.E. At the Foot of all these Mountains is the Harbour of Acapulco, spacious and very safe: and a little without the Mouth of it is an Island; on the N.W. side of this Island is a narrow Channel, at which Ships may safely go in, for there is Water enough.

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From Point Tequepa to the Head-land of Petaplan is 10 Ls N.W. This Head-land looks like a little Island; and a quarter of a L to the seaward of it are three very white Rocks, which at a distance look as if they were all butone: You may pass between them and the Head-land, and come to an anchor close to them, next the Continent, in a convenient depth of Water: Under these Rocks, there is Shelter sufficient against the S. and S.W. Winds as also on the N.E. side of the Head-land, because the Coast stretches 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 Settlements 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 Coast lying N. and S. About the length of these Rocks is a good Harbour, call'd Siguatanero. Note, Tho this Port cannot be seen from the Offing, as soon as the Rock comes to bear N. you'll see it, and you may pass by either side of the Rock. A L farther towards the N.W. there are 5 or 6 Islands great and small, where is a Village, but inconsiderable, towards the S.E.

Two Ls still N.W. from these Rocks, is a Spot of high hilly Land, call'd the Land of *Tacomatan*; and before this Land, close to the Sea, is a Town call'd *Istapa*; and on the Brink of the Sea is a small Spot of Land, which looks like an Island, shelter'd against all Winds from E. to S.E. This Spot of Land may be seen for 10 Ls every way, because it is high, and the rest of the Land low.

To the N.W. of Istapa is a flat level Shore, without any Harbour for about 12 Ls, in some places full of Trees, and at the End of it a Spot of thick and green Mangroves. There is the Mouth of a large River call'd Sacatulca: Halfa L up the River is a Spanish Town call'd the Town of Sacatulca. Note, That you must keep within 2 or 3 Ls of the Land, to be able to make these Land-Marks: Over the River of Sacatulca next the Sea are some Hills, the least of them opens without Trees.

From this River of Sacatulca the Land trends away N.W. rugged next the Sea, with several Hills of moderate height, call'd Los Mattinas: This high rugged Land holds for 25 Ls. In the highest part of the Land, about half a L beyond Sacatulca, you'll see two Hills as it were little Dugs, very close together; and when you are near the Land, bearing N. and S. with them, you'll discover an indifferent high Rock, with a Spot of Strand like a Creek: When you bear N. and S. with it, you may discern the white Church of a great Town call'd Tutapan. You may anchor to the southward, 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 see 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 unless near the Land. Between these Rocks and the Land to the S.E. is a piece of a Strand like a Creek, and a very green Velley and Here is good Anchoring and Shelter from the W. and

Deling half at L. Ifom the Continent. To the wellward faid Island is a River, which runs out as far as the Island, and there Ships may water; the Coast is mountainous, and the Shore upright: Between this Place and Acapulco are abundance of Crags, and broken Rocks on the Shore.

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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 Acapulco to the westward, you'll fee a spacious Strand, extending above 24 Ls in length, all of it low Land next the Sea, and with many Palm-Trees in feveral Places; it is called the Strand of Sitala, or of Apufagula. Ls dist. from Acapulco you'll see a Spot of Mangroves higher than all the other Trees, about a L up the Inland, and stretching out half a L along the Coast, which is here called Tequepa. Five Ls farther N.W. is an upright Point next the Sea, not very lofty; the highest part of it at a distance looks like Islands: Here is Shelter against the W. S.W. and S.Winds, which are the most boisterous on this Coast in Winter. When you are here you will see a white Rock standing out a quarter of a L from the Land; there is good Anchoring-ground between it and the

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these Land-Marks: Over the River of Sacatulca next the Sea are some Hills, the least of them opens without Trees.

From this River of Sacatulca the Land trends away N.W.rugged next the Sea, with several Hills of moderate height, call'd Los Mattinas: This high rugged Land holds for 25 Ls. In the highest part of the Land, about half a L beyond Sacatulca, you'll see two Hills as it were little Dugs, very close together; and when you are near the Land, bearing N. and S. with them, you'll discover an indifferent high Rock, with a Spot of Strand like a Creek: When you bear N. and S. with it, you may discern the white Church of a great Town call'd Tutapan. You may anchor to the southward, 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 see 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 unless near the Land. Between these Rocks and the Land to the S.E. is a piece of a Strand like a Creek, and a very green Valley: Here is good Anchoring and Shelter from the W. and N.W. Winds in 12 Fa. Water: The Place is call'd *Muibata*. If you have Occasion to go a Shore, you'll find *Indians*, who generally reside there, and follow Tillage: There you'll see the River, which runs only in Winter, and the way which leads up the same River to the Town, standing 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 Island or small Head-land, call'd *Tachifi*: And here ends the Land abovemention'd call'd *Motina*. Tho this be rugged Land, like all the rest of the Coast, yet there are Strands and Anchoring-Places, and Shelter from the N.W. Winds, which are the most boisterous along the Coast during the Summer Scason. To the N.W. of this Point is plain Land, full of Mangroves: Keeping an Offing of about 3 Ls, from this Point you'll see a Parcel of Ridges, or high Land, all Campain Country, it is call'd *Colima*. Among these Ridges is a smooth Break running N.E. up the Country; and if it be clear Weather, you may discern thro' the farther part of the Break a burning Mountain continu-

it is all cover'd with Cattle, and Orchards of Cocao.

Eight Ls from the Valley of Colima, is a very rough Headland call'd San Tiago; and on the S.E. fide of it are two Hillocks like Dugs: Between those Dugs and the Head-land of San Tiago is the Port of Salagua. In order to know this Port of Salagua, you are to observe, that there is a very white Rock clinging close to the Head-land of San Tiago, which may be seen at 8 Ls distance, whatsoever way you come towards it. Between this Rock and the opposite Point being about 3 Ls distance, is a Bay with a Strand: Farther up, it is all wooded. If you would put into this Port of Salagua, stand strait in for the Strand, for at the Ends of it there are two very good Har-

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bours, where many Ships ride; they are call'd Las Calletas, that is, the Creeks: That which is to the N.W. of the faid Strand is also very safe, land-lock'd against all Winds, tho smaller than the other. In this Port of Salagua is a fresh Water River, and there are Plantains and Woods. As soon as landed, you'll see the Road that leads to Salagua, which is a L and half from the Sea. Note, That between Salagua and the White Rock is the Port of Sant Tago.

Six Ls N W. from the White Rock is a little Head-land, which afar off looks like an Island; 'tis all craggy next the Sea, with a little Rock close by it, which looks like a Sugar-Loaf. On the N.W. side 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 Coast, which forms that Port, towards the N.W. is another Port, by the Natives call'd *Melaque*, and land lock'd against the N.W. the W. and S.W. Winds.

Bare 3 Ls from Port Melaque is a Row of four or five Rocks above Water, or finall naked Islands, running from the Continent, and stretching out N.W. and S.E. and if the Weather be fair, you'll see the Burning Mountain of Calima to the eastward up the Country, smoaking between these Rocks and the Port of Acapulco. The Coast lies E.S.E. and W.N.W.

Four Ls N.W. from these Rocks or Islands, about half a L from the Shore, and at a distance, are other great Rocks, which ook like Ships under sail, call'd the Rocks of Aquia-pasulco; you may safely anchor near them, close under the

Shore, for Shelter against the Sea and Winds off.

Between 2 and 3 Ls to the N.W. from these Rocks is a low Point, with high Crags, and a little Rock, or bare Island, close to it, on the N.W. side whereof is good anchoring under shelter 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 see two or three small low Islands call'd the Islands of Chametla; between which and the Continent is very good anchoring: The way in, is from the S.E. There is a Fishery belonging to the Town of the Puriscation, which lies 14 Ls up the Country.

From these Islands of Chametla the Coast runs to the N.W. a strait 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. there is a Parcel of upright Crags next the Sea; make directly for them, because to the S.E. close up there is very good anchoring, shelter'd from the N.W. the W. and the S.W. Winds: The Place is call'd Los Salinas del Piloto, or the Pilot Salt-Pits, by reason Salt is made very near this Place.

Sailing Directions for the great Run over the So of California to the Islan



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Directions for the Southern Ocean.

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The aforefaid Cape Corrientes being in 20 d. of N. Lat. is indifferent high Land, rifing by Degrees, barren, and bearing few Trees; but up the Country there appears above it a high Ridge of Mountains from many Heads, call'd Los Coronados.

From Cape Corrientes there runs in a Bay E. by S. 10 or 12 All the Land to the N.E. and N.N.E. is low, and looks very pleafant to the Eye: This Bay is 6 or 7 Ls in breadth; and all the low Land, which is full of Guayaves, belongs to

the Liberty of the City of Compostella.

From Cape Corrientes to the Point at the other End of the aforelaid Valley is about 10 Ls N. by E. and S. by W. Point forms a round Head-land of an indifferent Size, which looks like an Island without any Trees on it, and is call'd Point Ponteque. In the Offing to the westward of it, are two small Islands call'd the Isles of Ponteque, almost a L from the Continent: Ships may fafely pass between them and the Shore. On the W. of these Islands are some small Rocks, and then a Bank of Sand on which the Sea breaks, at the End whereof are two other little Rocks, the whole extending 2 Ls.

Three Ls to seaward of these Rocks is another small one, cleft in the Middle, which at a distance looks like a Ship without Masts: You may safely pass between this and the Rock of

Ponteque.

About 14 Ls N.W. by W. from the faid Rock are three large Islands and a small one; the three great are call'd Los Tres Marias, or the Three Marys, the lesser la Isla Baxa, or the Low Island, lying towards the N.E. and by it a white round

Rock: All these Islands lie N.W. and S.E.

From the Rocks of Ponteque the Coast trends on N.E. about 20 Ls to the Port of Matanchel; and if the Weather be clear, you'll see a very high Hill over the Port, with a Break on the Top, which is call'd the Hill of Xalisco, and may be very well made 8 or 9 Ls before you come to the Port of Matanchel. In a Bay with a fandy Shore joining to some high Land, at half a L distance from the Shore, you'll see a sinall round mountainous Island call'd Maxantalla; and on the Shore opposite to it, are Orchards of Cocoa, and grazing Lands. About 2 Ls to the N.W. of this Island is a Piece of Land full of small red Crags, where this Course ends.

Thus far the Spanish 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 must end our Survey of the

West Coast of America.

Run over the Southern Ocean, from Cape Lucas on the Coast nia to the Islands of Ladrones, inclusive.

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farther on the fide of the main Land: nor do the Spanish Manufcripts give any Account that may be depended upon farther N.

or N.W.

'Tis said indeed that Sir Francis Drake sailed up between the Land we call California and the Main, as high as the Lat. of 43 d. N. in hopes of finding a Passage that way into the great Chinese Ocean, and so to have made home by the East Indies: but he found it impracticable; and tho 'tis like he went not so far to the bottom of this Sea as to make Land at the extremest part, and ascertain the great doubt, whether it was an open Vare or Passage of Water, or a meer Gulph, a Bay in which there was no other Outlet 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 support it; and he was forc'd to come back the fame way, only keeping to the fide of California: He by that means kept to the westward, so far as to reach Cape Lucas, which is the fouthermost Point of Land on that side; from whence rounding the Point, and following the Coast which goes away W. and N.W. he kept the Land aboard, tracing the Shore, till he found it carry'd him too far to the northward; when at length he left it, and stood away to the Latit. of 13 to 15 d. N. in which Course he held on W. till after 11 Weeks Sail, without feeing Land, he made the Ladrones, being much the same Course which all the Navigators, who have thus circled the Globe after him, have purfued.

It is true, Sir Francis left no exact Journal of his Voyage, with the Lat. and Dist. of Places, the Course he held, and what way he made every day, as others have done; and so we cannot judge what occasion'd his being so much longer in the Run from California to the Ladrones than others usually are now: otherwise we might perhaps account for the Difference, and know how Captain Rogers made the fame Course in 8 Weeks, which Drake made 11 Weeks of: What we can fuggest at prefci fit for Li C to

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fent is, that Drake, tho a bold and skilful Sailor, yet being the first that ever sailed that Course, kept a more unsteady steerage, sometimes more to the northward, and then again nearer the Line than is now ordinarily done; which Variation of his Course must take him up the more time, besides that the more to the northward he went, the more variable would the Winds be; whereas Rogers and Cook keeping generally within the same Latit. viz. of 13 d. N. of the Line, had almost all the way the same Winds, that is, from the E. by N. to E.N.E. with no Variation worth naming thro' the whole Course: The Sum of their Voyage being to be drawn up thus.

1. Cape Lucas in California, from whence they took their Departure the 12th of January, lies in Lat. 23 d. 30 m. N. Their Course was S.S.W. and S.W. for 12 days, during which time they had the Windsomething variable between N.W. and N.E.

2. In these 12 days Sail they made their Southings 518 miles,

which brought them into Lat. 14 d. 30 m.

3. They kept on the 13th day W. half S. into Lat. 13 d. 36 m. and in this Lat. or within 20 m. of it over or under, they held the whole Course, and had the Wind steddy at E.N.E. 36 whole

days, and within a Point of it all the rest of the time.

By this keeping in a direct Run they certainly perform'd the Voyage in the shortest time of any that went before them, (tho not of some that have gone after, as we shall see in its place) having had a fresh Gale all the way, and going away large before it, they run generally speaking above 100 miles a day, one with another, during the whole Voyage; for they were 59 days under Sail, and they sailed 6193 miles, which is 100 miles a day, and 293 miles over.

The constant Trade-Winds that thus reign (as the Sailors call it) between the Tropick, have also this effect, that now the Voyage is, generally speaking, perform'd in the same time, or near it, viz. in about 60 days; so that those who attempt this Run for the suture, have nothing to do but to keep the same Lat. and they'll sind the same Winds: and this may serve for Sail-

ing Directions in general.

But as we have some Account of others, who have steered a different Course, and yet have had Success, it may not be improper to mention it, were it only to intimate, that if any new

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Sailing Directions for the

Adventurers attempt farther Toveries in these Seas, they can not fail (common Accident excepted) of performing it with Success, tho it be perhaps the greatest 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 foutherly Course, it might be perform'd, where the Winds are variable as well as here, where they blow Trade and are constant to a Point; with this Addition, perhaps, equally to the Advantage of the Sailors, That tho the Run could not be made in so short a time, yet they would be sure to meet with inhabited Coasts and Countries, (whether Islands or the Continent, is not material) where they would be certain to find the ordinary Resreshments so much wanted, viz. fresh Water, Wood, Provisions or Fruits of some 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 past all Contradiction; and his Journal has been published in Holland many years ago.

After he had failed round the Terra del Fuogo, and come fairly open into the South Seas, he did not (as is usual with our Ships) stand to the N.E. to make the Coast of Chili and Peru, where the Spaniards, who were Enemies, would be sure to injure rather than relieve them; but keeping a Course due N. (in order to ger Provisions and fresh Water, which they greatly wanted, and fresh their Men, who were fallen ill by the Length and Hammip of their Voyage) they made for the Island

of Juan Fernandes in Lat. 33 d 48 m. S.

Here they were disappointed of much of that Relief which they should have had, by coming to an Anchor on the wrong side of the Island, viz. on the S. side; and the Winds blowing constantly and very fresh easterly and N.E. they could not recover the Watering-place, which is on the E. side, nor supply themselves with Fruits and Provisions, as they might otherwise have done, and especially could not venture to put their sick Men on Shore for their Relief, lest they should be blown off, and not be able to setch it up again to bring them away; where-

as had they gone about on the W. side behind the Island, they had been under the Land in still Water, the Land being high and becalms the Road: But coming on that side which was open to the Wind, they could never come to anchor near the Shore with their Ship, the Sea going so high on that side.

Besides this, having spent 3 days in striving to recover the Watering-place, they sound that instead of that they drove 4 Ls to Leeward beyond the Island, notwithstanding all the Pains they took to get up again to it; so that at last seeing it impossible to be done, they gave it over.

They had fent their Boat ashore indeed to sound the Depth on the other side, had sound 40 Fa. then 30, but with good Shoalings to 3 Fa. but being out of the Wind's way, and being unable to come to an Anchor because they sound no bottom, they contented themselves with getting a Supply of fresh Water, and some Fish, and pursued their Voyage.

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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 usage might have been brought to be familiar with them, they might no doubt have gotten both Water and Provisions; for they saw the Tracks of Cattle both large and small, and it was not to be supposed the People lived without fresh Water: But they were impatient to look farther, and having gotten a tolerable Store of Rain Water, they weigh'd and steer'd away W.by N. to other Islands, of which they sound almost a continued Range, almost all the way to the Moluccas.

But not to enter into the Particulars of that long Voyage,

'tis to be observ'd.

1. That they met with this Island in a Run of about 900 Ls W. from Juan Fernandes; whereas on the N. side, 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 Island, they met with other Islands in the same Lat. or near it, almost at every day or two's sailing, and that even all the way to the Moluceas.

for they came not near the Ladrones.

3. That from hence it is very probable, had they flood a-way N.W. from the first time of their entring into the South-Seas, and not have gone so far N. as the Island of Juan Fernandes in Lat. 33. they would have met with other Land, either Island or Continent, within a much less Run, so that they might have had frequent Supplies as well of Provisions as Water.

The Dutch Journal is full of the Description of the People, their Proes or Boats, manner of Sailing, Habits, Customs, &c., which takes up a great part of the Work, but is not to our purpose; and therefore we shall omit all that, and only observe

what is material, to the Sailing Part.

they spent more time upon the Voyage, and instead of performing the Run, as the Duke and Dutchefs did, in two Months, they were full sour Months: But then on the other hand, they were not exposed to the Dangers and Extremities which the others suffer'd, and were like to have suffer'd for want of Water and Provisions, and by Leaks and other Disasters; which, had they met with Islands and Harbours, as the Dutch did, would have been prevented, or the Want soon supplied: Which could not be done in the Ocean, where the Wind tho sair yet generally blowing hard, the Sea 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 spent, it may be supposed to be much longer, because of their being so entirely unacquainted with the Course they were to steer, and with the People they were to converse with, not to mention other Circumstances, which after one Voyage or two would have been all so plain, that they could never have taken a Step in vain: The length of time therefore spent in the Voyage, is no Ob-

jection against attempting the like for the future.

3. It is to be confider'd, that le Maire was upon an Undertaking for Discovery rather than Commerce, and therefore

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some Fish, and pursued their Voyage.

In this Distress, and with a Scarcity of almost every thing, they began their Voyage for the East Indies, taking their Departure from Juan Fernandes, and standing away W. and N.W. and sometimes W. by N. This had been a piece of Desperation, not to be accounted for by Men of common Senie, had they not depended upon meeting with variable Winds and inhabited Countries in their Voyage; for if they had been to make a Run of 2000 Ls, which was the least of the Voyage, in the Condition they were then in, the Men must have all perished for want of Water, as well as Food.

Nor is it easy for those Ships, which perform the Voyage in the other Latitudes within the Tropicks, to carry fresh Water. and furnish other Provisions in those hot Climates, sufficient for a Run of 3 Months, as was at first the Case: and the Duke and Dutchess found themselves almost at the last Gasp, when they first made Land at the Islands of the Ladrones, having neither Water nor Bread for 10 days more, altho they unexpectedly found near 3000 Weight of Bread more than they knew

of in one of their Ships.

But to return to Le Maire and his Company: they weigh'd from Juan Fernandes, and having but a flender Store of Provisions and less of Water, set sail for the East Indies, standing N.W. till they past the southward Tropick, and came into the Lat. of 19 d.

In this Lat. or between 15 and 20 d. they failed from the 5th of March to the 10th of April, when early in the Morning they made Land, lying N.W. and N.W. by N. from them, dist. about 3 Ls, which they soon understood to be an Island.

About Noon they got to this Island, and casting their Lead with intent to come to an Anchor, they found no Ground at first, till rowing with their Boat about the Island, they had Ground at 25 Fa. about a small Musket-shot from the Shore, where they came to an Anchor and went ashore, but to their great Discomfort found no Water or any thing else for their Relief, the People flying from them frighted and amazed. However, they were happily relieved by a heavy Rain, of which they faved feveral Buts; and had they stay'd till they might

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jection against attempting the like for the future.

3. It is to be consider'd, that le Maire was upon an Undertaking for Discovery rather than Commerce, and therefore was not so much engaged to make the best of his way, as is the Case in Voyages of Trade: And this occasion'd his ranging from one Island 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 almost a direct Run, in the same Lat. one Degree over or under.

We have also a more modern Globe Girdler, who has performed this Voyage in less time than any that ever went before him, at least that we have an Account of, namely, Captain Shelvock: He has lately published his Voyage round the World, and, if it may be depended on, performed it between the 18th of August and the beginning of October, which at most is

but fix Wecks.

This was certainly fuch a Run as was never heard of before, being above 6000 Miles in 42 Days, that is, 150 Miles in 24

Hours, one Day with another.

Both Rogers and Shelvock, following the Steps of Sir Fra. Drake as to the Land they pointed to, made the Ladrones as the first Land, after their Departure from Cape St. Lucas in California, tho they did not keep in the same Latitude; whereas le Maire made the lower Islands on the Coast of New Guinea, steering 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 spoken so often, making his Voyage from the Streights called by his Name, sirst made those Islands, and was the first Discoverer of them, and that he gave them their Name, viz. the Ladrones, or the Islands of Thieves; and that he sail'd from thence to the Manillas, as they are now called, or the Philippines. That he did so is certain, and that there he lost his Life; but whether he was the first that discovered them is not so certain: However, this seems out of question, viz. That he was the first that fail'd this Voyage, and came to them this way, and mark'd out the way for those which came after him.

It might be for the Instruction of those who may hereaster attempt this Run, if we examined the Courie more exactly than has yet been done, by which the Manilla Ships, commonly call'd Acapulco Ships, make their Return from the Port

of Manillas to Acapulco.

We are affur'd that those Ships do not make the Ladrones in their Return, but that the Manillas being situated in a higher Latitude than the Ladrones, or at least than Guam, viz. in that of 15 to 19 d. the Manilla Ships usually keep to the northward, and pailing either in that Lat. or to the northward of the Tropick, by that means meet with a like continued Range of Islands, as the Dutchmen under le Maire did to the fouthward of the other Tropick.

In this Course, tho they meet with variable Winds, and are therefore longer in their Voyage, yet they are thereby supplied with Water and Refreshments; and being very full of People, for the great Acapulco Ships have often 25 to 300 on board,

they have the more need of frequent Refreshments.

By this Course they make the Land of California higher up to the northward, perhaps in the Lat. of 36 to 40 d. coasting from thence to the fouthward usually in fight of Land. This is the Reason why the Duke and Dutchess, in their design'd Attempt upon them, cruized wholly in fight of the Land of California, in Lat. 22 to 23 d. N. knowing they were fure to find them there, if they came at all that Year.

This Course in the Return of the Acapulco Ships is farther confirmed by the following Circumstances, which indeed put it past all doubt, viz. That when the Duke and Dutches, ha-

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Sailing Directions for the Islands of the Ladrones, an of the Philippines inclusive, and thence on to the Macao in China.



HE Island of Guam, the the most southerly Island T of the Ladrones, is generally the first Land which our Ships make in the great Run from the Coast of America to the East-Indies, especially such Ships

as keep a northern Courfe, that is, go to the north-

ward of the Equinoxial Line.

It is fituate in Lat. 13 d. 21 m. N. some say in 13 d. 30 m. firetching from N. to S. about 10 to 12 Ls in length, and about 6 Ls in breadth. Our Navigators contend much about the Longitude of it from the Coast of America: The Pilots of the Duke and Dutchefs adjusted it at 105 d. 20 m. Capt. Shelweek, who made the Run in the very fame Lat. of 13 d. N. or within a few Minutes of it, corrects that Account, and fays it is fomething less than 100 d. Longit. from Cape Lucas, on the S.E. Point of California, to the Island of Guam, besides their Southings from the faid Cape in Lat. 23 d. 50 m. to Lat.

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is farther ed put it bess, having taken one of the Acapulco Ships, examined their Prifoners 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 Manillas was generally between Lat. 35 to 40 d. N. The next is from the fame Account, where it is affirmed that the Manilla Ships generally make the Coast of California sufficient Lat. 40 d. N.

Besides, the Nature of the thing tells us it must be so. For as the Winds between the Tropicks blow always one way, that is, N.E. and E.N.E. without which it would be impossible for the Ships to make the Voyage westward as they do; so the Ships homeward bound from the Manillas to Acapuleo are obliged to keep to the northward, by the mere Necessity of the Winds, it being absolutely impracticable to make a Run 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 Islands, for Relief and Refreshments, so they also found variable Winds, which carried them from Place to Place, tho not with such Steadines's and in so little time, yet with Certainty sufficient to enable them to make the Voyage in a reasonable time, which otherwife with the casterly Trade-Winds would be utterly impossible.

Having thus accounted for the Length of the Run from America over the vast Southern Ocean westward, we have only to add what is proper for Directions to the Sailing at and among the Spaniards Islands of Asia, whose Description was

left to this place in our former Accounts.

e Ladrones, and from thence northward to the Islands thence on to the Island of Formosa, and to the City of

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d. 30 m. and about about the ots of the apt. Shel-

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You ride here in 15 to 20 Fa. under the Lee of some Rocks, which lie on the N. side of the Road, and make it the more easy, and secure in case of a N.E. Wind. The chief Port of the Place is called *Omatta*, or *Otatta*, having a high round Hill just before it, which makes a little safe Harbour within it for small Vessels: but the Ground is so good in the Road, and you are so well shelter'd, that there is no need of a better Harbour.

The Road at **Umatta* lies about a mile off Shore, the Ground a good holding Sand, and the Windalways blowing off Shore: there are no Fortifications, only a strong House like a Castle for the *Spanish* Governor*, to secure him from any Insurrection of the Natives.

The Produce of the Island is not our business here; it is enough to tell the *English* Sailor for his Encouragement, that here is plenty of Provisions, which after so long a Run he would be very glad of, such as Rice, *Indian* Corn, Cattle.



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N. B. Others lay Cape Lucas is in 23 d. 30 m.

The S.W. part of Guam is high and mountainous; but the N.E. which was the fide our European Sailors may be supposed to make first, tho it was farthest from them, is low. the Duke and Dutchefs first made the Island, they tell us it bore from them W.N.W. dist. 12 Ls; which could not well be the low part of the Island: And the next Morning they observed that the S. part of the Island bore from them W. by S. which we may take it for granted, that the low part, which was the N.E. Point, was not to be feen at fuch a distance.

When therefore you first make Land here, you ought to look well out; for if it be the farthest part of the Island you fee first, you may be a-ground upon the nearest part before you fee it, especially if it should be in the night. It is fruitful, and well furnish'd to supply a Ship or two with all Necessaries after fo long a Run; but if there should be many Ships together, the Place might be exhausted.

There is another Island, which lying more casterly is generally made first in this Run, and is call'd Sarpana; it lies about 8 Ls to the eastward of Guam, but has neither a Harbour fit for great Ships to ride in, nor is able to furnish the Supplies usually wanted, as Guam is; for which reason our Ships rarely take any notice of it, except to guide them to

Guam. The Road is on the W. fide of the Island, in a large Bay made by the Land bending out westward both at the N. and S. Ends of it, and render'd fecure riding by a long Ridge of Shoals lying out into the Sea from the S.W. Point of the Island to the W.S.W.

These Shoals break off the Sea from the S.E. and keep off a S.E. Wind also, as the Island it felf does an E. Wind; and a little Island, call'd the Caper Island, because it is overgrown with Capers, does 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 Week in feven Years.

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The Produce of the Island is not our business here; it is enough to tell the *English* Sailor for his Encouragement, that here is plenty of Provisions, which after so long a Run he would be very glad of, such as Rice, *Indian* Corn, Cattle, and Fowls of almost all forts, fresh Water, &c.

From this Island the Course of the Europeans seems always

to lie one of the three ways following.

1. Some make their Course from hence S.W. and S.W. by S. taking their way among the innumerable Islands of those Seas towards Batavia, or at least towards the great Island of Borneo, that so they may the more readily pass the Straits of Sunda, and open with the great Indian Ocean, and so forward for the Cape of Good Hope. This was the way the Duke and Dutchess steered, and this way the famous Sir Francis Drake went before them, as most of those Europeans who make this grand Tour round the Globe do still.

N. B. From this Island to the Moluccas, or Dutch Spice

Islands, is about 400 Ls.

2. Others having made this Island first, go away N.W. or W. by N. steering for the *Philippines*, that is, for *Luconia*, the northermost of them, in which is the City and Port of *Manulla*. This likewise is between 3 and 400 Ls; and this is the Course which the *Spaniards* take when they come from *Acapulco* (for they are all bound to the *Manillas*, and no where else) back again to *New Spain*.

3. The third kind are such Ships as coming from the E. that is from America, and being bound for Europe, chuse to avoid the Islands above-mention'd, which are indeed very perplexing and hazardous, (and where Sir Francis Drake and others have been in danger of being lost) and steering away due N. from the Ladrones to the height of 24 or 25 d. N. Lat. stand then to the W. for the Island of Formosa, and from thence to the Coast of China, so to fall in with the English Ships, which trading on the Coast are generally to be met with at Amoy, or at Canton; and so come forward in Company with them into Europe. This is the Course which Captain Shelvock took after his long Run over the great South Seas to the Island of Guam; instead of going S.W. to Batavia, he staid very little at Guam, but steering northward made no more Land, or at least stopt at none, till he came to Formosa; from whence he steer'd S.W. to Ma-

Sailing Directions for the Islan

cao, and the City of Canton in China, of which Ports we have

given sufficient Descriptions in their place.

It was needful however to mention this Run, as a Direction to those who may have this Course in their View hereaster. I return to the second, which is the Course of the Spaniards, and leads us to the Philippine Islands, which, with the other Islands on the West of America, are the only parts of the World lest to speak of.

The principal Port is the City and Harbour of Manilla; the Passage to it from these Seas is thro'a Strait or Vare, called the Streight of Manilla, lying between the Island of Luconia to the N. and the Island Philippina to the S. The Passage lies E. and W. or rather S.E. and N.W. and needs no Pilotage, the Straitbeing, for the most part, 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 bigness of the Island; it issues out of a Lake

Sailing Directions for the Islands on the Coast

Aving thus given the general Description of the Coast, and Directions for the Navigation from the Straits of Magellan in Lat. 52 d. S. to the Bottom of the Gulph of California in Lat. 40 d. N. being the longest contiguous Coast in the known World, and all under

the Dominion of one Prince, to wit, the King of Spain; it remains to inquire, 1. What confiderable navigable Rivers are to be found on all this long Coast, in which the Sailors might stand in need of Directions, either to make the Entrance or to sail up, as is usual in the great Rivers in other Parts of the World? And, 2. What Islands of Note are to be met with in this great Southern Ocean, whose Coasts should be described for

the Benefit of our Sailors?

It will be fomething furprizing to those who have not enquired into the Case, when I shall observe to them, on the first of these Heads, that altho this Coast of America is of so vast a length, being one continued Continent of near 2000 Ls, yet that there is not one navigable River worth naming upon the whole Coast; in short, not one River equal for Navigation to the little half River, for 'tis no more, by which we fail up from Harwich to Ipfwich, which carries Ships about 12 mile: nor indeed do I know one that has fo fair a Channel for great Ships as that to Ipfwich has: fo that in all this vastly extended Country of America, which on the other fide of it, (viz. in the Atlantic Ocean) has the greatest 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 fresh for several Ls, such as the Rio Plata, Rio Amazones, Rio Oroonoko, Mississippi, Canada, Chesapeak, &c. 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: those of Baldivia and Guyaquil are most considerable, and they are scarce worth naming. This being the Cafe, we have no Account of

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of Manilla; the Vare, called the of Luconia to the Tage lies E. and W. e, the Strait being, to Fa. deep.

illa is very large, les out of a Lake called Bahi, which falls into the Sea at Cavito, a finall but well fortify'd Town, which is the Port for great Ships to Manilla, and where the Vessels of Burden lie.

There are Pilots to be had here for the Port it self, for the Streight also, and for all the rest of the Islands. Besides there is a very good Haven, able to receive 500 Sail of stout Ships.

There are no Harbours of Consequence in any of the rest of the Philippine Islands: the Island of Mindanao, which is the largest, has no considerable Port: The Trade-Winds blow here after the manner of the Monsoons; westerly winds blow from May to September, and in July and August bring great Rains and Floods; from October to April the easterly Winds blow and bring in good Weather. Here end the Spanish Dominions in the East Indies, which concludes our Sailing Directions for New Spain also.

Is on the Coast of America, on the side of the South-Seas.

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I must omit in my Account of Islands, those small Islands which lie as it were under Shore, or within the Bays and Gulphs near the Main, and which it was necessary to speak of in directing your sailing along shore; like as I have done in the Description of other Coasts, and which I have accounted for more than once in other Parts of this Work: Nor was it practicable for me to direct the Sailor in his course along the Shore of Chili, Peru, Panama, Mexico, &c. and not mention those Islands which he must of necessity touch at, and see under his Bow as he went on, such as Chiloa, Mocha, Puna, Callao, Gorgona, the Pearl Islands, and others.

But for islands lying off at a distance in the Ocean, and Islands of Consideration, we see none but Juan Fernandes, and the Gallegos or Gallepagos, between the Terra del Fuogo, and Cape Lucas on the S. End of Califormia.

As to the Terra del Fuogo, that is an Island no question; and we have given Accounts of feveral Voyages made round it: Nay, it may be accounted two Islands, if we allow the Account of the Streight of St. Barb, or Barbara, discover'd by the French in the Tartan of Marseilles. 'Tis true, we find no distinct Name given to that part of the Island, which the Streight, or Passage, parts off to the W. of the other: But we may for the present call it the lesser Land of Terra del Fuogo, as the eastmost part is by much the larger every way, and especially 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 most southerly of the western part, or lester Island, lies in Lat. 54 d. I must again add here, for the Direction of all who may have Occasion hereafter to sail into the South-Seas, That it seems of the utmost Importance to fuch a Voyage, to make a full Discovery of this Passage, which, if it be as the French have describ'd it, is made much safer and shorter than was ever known before, and no Ships for the future need be above 12 Days in going thro' from Sea to Sea,

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I must take notice indeed, that some of our French and Spanish Discoverers have given us the Names of several great Rivers, which they tell us they found in the N.W. Part of America, even beyond their Louisiana, and the Sources of the Missipppi, whose Streams ran westward, and consequently must fall into some part of what we call the South Seas, or rather so far N. as to empty themselves into the Chinese or Japanese Ocean. We can not indeed say positively, that no such Rivers are, or have been found; but this may be said on good Grounds, that no such Sea has been sound out, nor any such Coast discover'd where the Mouths or Openings of any such Rivers are to be seen: and therefore we may venture to say, that the World as yet knows nothing of it, and consequently

no Account can be expected of it.

Some modern Geographers say, tho without Authority, that the Spaniards after many unsuccessful Attempts did at last find a Passage thro' the Sea of California; and in their Maps they call this the Northern Streight of California, which they block up with an Island, leaving a Channel on either side, all alike imaginary: for we can not hear of any that have been able to

find that Opening, or to pass that way after them.

I come in the next Place therefore to speak of the Islands of America, on this side. And here I must observe, that if it is wonderful that there are so sew Rivers of any length, and that are navigable for Ships of Burden, on so long a Coast as almost for 2000 Ls; so its no less wonderful, that in all this Eastern Part of the great Southern Ocean, there are hardly any Islands of note, even for above 1500 Ls square; that is to say, take the Southern Ocean at a Medium, and fix the Center of your Measurement at 700 Ls from the Main, and in the Lat. of 34 d. S. and you have not any Island worth naming for 2000 Miles every way, E. W. N. or S. and perhaps take it E. and W. for 300 Ls more.

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This I speak concerning this lesser Island, because I think its of the last importance to Navigators on this difficult Voyage, and as it really belongs to the present Part: As this latter part of the Terra del Fuogo is an Island by it self, which it was never taken to be before. We have no Survey of the outer Coast of it, nor 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 describe it full of Harbours, Islands, Creeks, and Coves; but with what Authority we yet know not: All we can say is, That from the Opening of this Passage by Cape Noire the Coast of the Island trends N.W. and

N.W. by W. on a strait Line to Cape Desseada, at the W. Entrance of the great Streight of Magellan.

From this Point of the Magellanic Streight there are no Islands of note in all the Run to the northward, till we come

to Juan Fernandes in Lat. 23 d. 45 m.

At the S.E. End of this Island is a large spacious Bay, where you may anchor in very good Ground, and in 11 to 12 Fa. Water: it is very good Riding here in the Season, 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 Seasons of those Winds very hard.

These Islands are two, I mean the largest of them, for there are other Rocks which some call Islands also: The biggest of the two is that which we properly call Juan Fernandes, about 3 The Ls in length, stretching nearest N.W. and S.E. Dampier says it is 12 Ls in circuit, and that both the Bays are at the E. end, which according to all others cannot be true: He also places the Island in Lat. 34 d. 15 m. S. whereas others place it in 33 d. 45 m. as above; the Difference we must leave to Experiment.

In the Bay mentioned above, which is at the S.E. end of the Island, there goes so great a Sea with a southerly Wind, that the Boats dare not venture to land: The best of the Road is about a Furlong from the Shore; but if the southerly Winds blow hard, as well Ships as Boats must put out to Sea, for the Sea comes tuinbling in so high, that no Ship can ride it.

In good Weather with the Winds off Shore 'tis a very good Road, but you must fight your way thro' before you can laud; for the Seals lie so thick upon the Shore, that you must kill some hundreds of them before you can so much as set your Foot on Shore.

On the N.E. side of the Island 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 1.4 Fa. Water about a quarter of a Mile from the Shore, and good riding: Also here you may cut Wood with great Convenience. Some People are loth to go into either of thele Bays, and chuse to ride a L off the Shore; but they are oblig'd to he with two Cables an end in 25 to 30 Fa. and are often forced to flip their Cables and put out to Sea, and fometimes are carried to far to the Leeward of the Islands, that they cannot fetch it up again, as was the Cafe of Cornelius Schouten and le Maire, who made the Island, but fell a little to Leeward: And tho they were in great diffres for fresh Provisions, and particularly for fresh Water, and had a vast Run to make, even no less than cross 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 westward, as is describ'd in its place.

Here are no Inhabitants except Goats and Seals; but they are so numerous, that Mr. Dampier tells us a single small Boat's Crew kill'd 600 Goats in one Day's Hunting. This plenty of Flesh and fresh Water causes almost all the European Ships to anchor

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The next Island or Islands N. or N.N.W. from Yuan Fernandes is the Gallepagoes, nor is there any Island in all the Run between Juan Fernandes and thele, tho it is no less than 670 Ls. These Islands of Gallepagoes are a Cluster of small Islands and Rocks: their Number feems not to be adjusted by any Writers: The best and most exact Account of them is. That they are a Number of large Islands lying directly under and close on both fides the Line: they are like those of the Fernandes uninhabited; and the nearest of them to the Eastward is 110 Ls dift. from the Shore of America, as they are placed in most of the Charts I have met with. They lie in Longitude from 176 d. to 181 W. tho according to Dampier they are not placed far enough W. those of the westermost Situation are the largest Islands, and some of them are 9 or 10 Ls long, and 6 or 7 broad; the rest are smaller. Dampier tells us he reckon'd up 14 or 15 of them, which were generally from 7 to 10 Ls long, and 3 to 8 Ls broad.

The chief things for which they are frequented by European Ships are three, viz. Wood, fresh Water, and Tortoise or Turtle: The 2 former are to be had good, but the latter is in such plenty, that their Number is innumerable, as their Size is prodigious; for here they find them of 150 to 200 Pound weight, and sometimes near a Bushel of Eggs in one of them, which are a very great Relief to Seamen, after having subsisted a long

time wholly upon falt Provisions.

It is proper to observe here, That you should never come to these Islands of the Gallepagees in the three Winter-Months of November, December and January; for that being the rainy Season, they have also almost continual Tempests of Wind, Rain, Lightning and Thunder: Most of the rest of the Year they have moderate Weather and a smooth Sea.

Dampier tells us he anchored on the E. side of one of the eastmost of those Islands, and sound 16 Fa. Water, clear white hard Sand, and well sheltred: And Davis, another European Commander, came to an Anchor on the W. side of the Gallepagoes, where he also sound good Riding in 22 Fa. and again, Dampier anchored at the N. end of the second Island,

in Lat. o deg. 28 m. N. from the Line.

These Islands of the Gallepagoes lie very convenient for any Ships to sail by, who keep off in the main Sea, not caring to be discovered from the Coast, as is generally the Case of our European Cruizers when they come into these Seas: And as there is good Harbour, Wood and Water, besides the Resreshment of Tortoise, and a vast Mulitude of Fowls, they often lie here to careen and repair their Ships; but as the Situation is under the Line, the Heats are excessive great.

Also for those Ships that would cruite upon the Spaniards of Panama, or of Lima, these Islands are of great use, as well to retreat to with any Prizes after they have taken

them, as to rendezvous at, after any calual Separation.

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Here are no Inhabitants except Goats and Seals; but they are so numerous, that Mr. Dampier tells us a single small Boat's Crew kill'd 600 Goats in one Day's Hunting. This plenty of Flesh and fresh Water causes almost all the European Ships to anchor here, especially because there is no other Place where they can come sreely on Shore, all they can get on the Main being by

Force or Stealth.

There is also a great Quantity of Seals and Fish, among which, according to Rogers and Cook they have Craw-sish as large as Lobsters. Our European Ships apply themselves to take Fish here as well as Flesh, which they salt and keep as long as they can, to eek out the Stores of Flesh.

This is the Island where Rogers and Cook found a Scotch Man named Alexander Selkirk, who had lived four Years alone,

and maintained himself by Fishing and killing of Goats.

N. B. This Island lies due W. from the Main of America, dist. 95 Ls; Dampier says 120 Ls.

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N the E. side of California is a very deep Gulph or Sea, call it which you will, for it is not yet perfectly discovered, nor is it exactly survey'd even so far as it is discovered. We read of no European that ever made any Attempt this way: Sir Fra.

Drake indeed sail'd up the W. side; and it seems as if he did that ignorantly, expecting to have passed round the Land of California towards the Sea of China, not having the least View of making Experiments or Discoveries for Aster-ages: Had this been his Business, he would at least have search'd the Shores, and got some Knowledge by the Inhabitants how far the Sea continued to go; nor would he have been discouraged by any Cold which could be possible in the Lat. of 43 d. and no more, for that it seems was the farthest he went N.

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There are several convenient Places to ride in upon the Coast of these Islands, but no Bays or Inlets where a Ship may run in, nor any Rivers except small Brooks; yet the Water is very fweet and good. There are many strange Currents among them, occasion'd, as we suppose, by large Rocks, which may lie deep under Water: These Currents generally set to Leeward, except on the Full Moon; and then it has been observed they will run as strong to windward, and some think they do the same at every New Moon, that is, at the Top of the Spring-Tides.

From these Islands we see none worth naming, except the Pearl Islands in the Bay of Panama, the Island Gorgona, and others, of which I have spoken in their places, and which are excepted out of this Account; except these, I say, there are none till we come to California, which, as I said above, I shall speak of as an Island, without pretending to determine whether it be to or no.

California, from Lat. 38 d. North on the East side on the West and North-West Coast of it inclusive.

Besides, it is evident from the Circumstances Sir Fra. Drake was in, that his ranging those Seas was an Accident to his Voyage, it not being his Bufiness, who had such a Charge of Treasure on board, to suffer himself to be embay'd, where the Spaniards, if they had known where he was, might with eafe have intercepted him in his Return.

Sir Francis therefore, knowing nothing of the great importance of the Discovery, finding an Extremity of Cold, and his Men discontented at the Hardships they bore, was obliged to return, and put into a Port or Bay, which he found on the W. side of the Island or the Main of California, and in Lat. 38 d. where he refresh'd his People, got Wood and Water, took Polfession of the Country in the Name of Queen Elizabeth, call'd it New Albion; and having got what Provisions the

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would afford, came away to the fouthward, coasting the same side 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 Anchoring-places, but no Towns or Cities, as there are on the E. side of the Gulph; the Inhabitants being Savages, and for the most part living far within the Land, and not having so much as a Canoe to go off to Sea in, tho they fish very diligently for

the Supply of their Food.

Cape Lucas lies N.W. from Cape Corientes, this latter being on the Coast of New Mexico in Lat. 20 d. 28 m. nilla Ships in their Return from the Philippines having coasted the W. Shore of California to Cape St. Lucas, stretch over from hence S.E. by E. till they make Cape Corientes, and then go away S. and S. by E. to Acapulco: the Mouth of the Gulph or Entrance of the Sca of California must be here near 80 Ls over; but as there are some Islands lie off of the Shore on both fides, when you are farther N. fo the Gulph narrows to about 40 Ls. Those of the Islands on the Spanish side are called the Islands of Chametly, being 6 in number, and lying just opposite to Cape Lucas, due E. from the said Cape, being in the lame Lat. viz. 23 d. 11 m. almost under the Tropick: also the Islands de tres Marias lie in the Osfing, about the middle between both Shores.

Captain Dampier calls this Gulph the Lake of California, tho I think improperly: He says indeed, that it is properly a Channel or part of the Sea between the Island, that is, between California, and the Continent. He adds, that it either is not much known by the Spaniard, or is conceal'd by them, for sear the European Cruizers should find out the way to the Mines of Mexico. But I think the first is the real truth, viz. that the Spaniards know little or nothing of the Gulph, especially on the Californian side: and as for the Privateers and Mines of Mexico, 'tis evident our Cruizers have often sailed up that side 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, most of the said Cruizers have given over the Search, and those that have attempted it have miscarry'd.

From the Place where Sir Francis Drake careen'd, which lies in Lat. 38, on the W. fide as above, the Shore of California iies N.E. by E. if Sir Francis Drake's Account is to be depended upon: he measur'd from Guatulco to the northward 800 Ls; but, as that is from Lat. 15 d. 30 m. to 43 d. only, it is not so far by 240 Ls. So that it must be supposed they might make out the rest by frequent coasting the Bays and Bights, in tearch of some Outlet, which however they could not find, but sound the Land on the said W. side all low and plain, without any Rivers or Harbours, till they came to the Lat. of 38.

It is our unhappiness, that Sir Francis Drake's Account of this Coast is rather fill'd with a Relation of the People, the Reception 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 Descrip-

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Ls broad, with 2 Islands in the Passage, about 4 Ls. distant from one another.

'Here we discerned from the Top-head, that there run a Channel or Gut of Water a-cross the flat Country on our Larboard side, which extended W. and W. by N. as far as we could discern any thing; which Streight or Channel might part the Island of California from the Continent: but it did not seem to be navigable, neither could we find any Opening to go into it, otherwise we should probably have gone in with our Boat.

The Streight which we enter'd was fair, and clean from Rocks, but very deep Water. We past between the two Islands, where we founded, but found no Bottom. We were no sooner thro' this Streight, but we came into an open Sea; and failed still northward, supposing we were got into the great northern Ocean. But having sailed about 15 Ls, we descried at a great dist. N. a high mountainous Land, running cross the whole breadth of the Sea, and joining, as we thought, both the Shores; so that to our great Disappointment we found we were embay'd, and enclosed with Land on all sides, except the Streight between the 2 Islands, where we came in.

But while we narrowly observed the Coast which lay thus before us, we perceived as we thought an Opening to the N.W. being on the same Shore of Santa Cruze, or the Land of California; and being defirous to fearch it to the utmost, we alter'd our Course to the W. and W.N.W. and stood in near the Shore, running along by the Land N.W. in 60 Fa. Water, within a L of the Land; holding this Course for 15 Ls, till we came to a large Opening which run into the Land West; into which we enter'd for the length of 6 Ls, but found it to be only a Bay, the very wide: so that we were obliged to steer N.E. at least 12 or 15 Ls, to come clear of the Land, after which we held on our Course northerly and N.W. We afterwards fearch'd diligently all the Coaft, and went into every Bay or Sound, of which there were many, in hopes of finding fome way our towards the N.W. but in vain; tho here we faw no Land right before us, as we had done before.

But having failed thus N.W. many Ls, at length to our Surprize we found shallow Water; and from 60 Fa. the Soundings shoal'd as we went on to 11 Fa. then to 10, and the Water thick, black, and muddy: at length we had but 5 Fa. Upon which we thought sit to come to an Anchor, and Sounding farther with our Boat, we came to 3 Fa. soft black oaze, or rather Mud.

Seeing then we could fail no farther this way, we determin'd to pass over to the Land which we had seen before, and which lay now to the eastward of us: so we steer'd N.N.E. And here also, upon our coming within 5 Ls of the Land, we found as little Depth as before; so we came to anchor again, and rode all Night in 5 Fa. and here from our Topmast Head we could perceive a high mountainous Country on the N.W. running cross eastward, as those had done to the west-

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and grave his Ship.

What other Accounts of this Island we have, is from a Spanish Journal of two Ships, which crossing over from St. Iago made the Bay of Santa Cruze on the E. Shore of California, and anchor'd there in 25 Fa. Water: 'Tis suppos'd they called this Place the Harbour of Santa Cruze; for we meet with no European Account of Names given to any Places before that time.

From thence they coasted to the N. keeping 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 Cabo de Los Playas in Lat. 38.

N. B. This must be supposed to be opposite to the Bay on the W. Shore, where Sir Francis 'Drake careen'd his Ship.

In this part of the Gulph the Spanish Account tells us they met with abundance of Islands, some of a large Extent, stretching usually with the Gulph N.W. and S.E. beyond these they found the Gulph grow narrower, till at last they found the Land closing upon them.

This Account I shall give in their own words, taken from

the Spanish, translated into Dutch, 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 Ls. All the Coast of California during that Space is low Land, with

· scattering little Hills all over it, but neither Grass nor Trees

growing on it; but it feemed to be a dry whitish Sand. At

Night we came to an Anchor in 20 Fa. Water, about 2 Ls · from the Shore.

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Head we could perceive a high mountainous Country on the
N.W. running crois castward, as those had done to the westward, and joyning the Mountains on the side of the Main.

' Having thus fearch'd both Shores, and finding it all shoal 'Water beyond us, we concluded to steer our Course back to the Streight which we had pass'd; and accordingly tack'd about, and for 3 days sailed S.W. anchoring at Night in 11 Fa. 'Water.

By this Account there was found an Opening, and a Streight with a Passage thro'; but it seem'd only a Passage out of one Gulph into another, and that the outer Part, tho large too, was small compar'd to the other; so that they soon found themselves embay'd, and surrounded with the Terra Firma of America. So that unless there was some Channel which they could not perceive, the Land of California must join to the

Continent on that fide.

It is alledg'd indeed that they did fee a Channel on the W. fide, which, from the Topmast-head of their Ship, and with the help of the Sun-shining on the Water, they could perceive crossing a flat Country to the N.W. but not such as to be navigable: in which Case California might be an Island, and yet no way or Passage practicable for Ships to be found into any other Sea.

To come then to the Western Shore, there the Sea no doubt goes on N.W. and N.E. much farther than has yet been discover'd, because no Ships have been known to fail that way higher than Sir Fra. Drake who was in Lat. 43 d. and to Cape Blanco in Lat. 40 d. which is the sirst 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 Island, which the Spaniards have given Names to, and on occasion have sometimes landed in, and gone ashore among the Natives: but as there is no Commerce there, and but little Refreshment, they are seldom visited. The chief of them are St. Schassian, Punta de los Reyes, in Lat. 40, La Conception in Lat. 35, Porto de

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St. Diego, Bahia de todos los Santos, Rio de St. Christoval, Bay de St. Martin, in Lat. 25. and Port de Seguro in 23 d.

The most southerly of these, and which is the Port formerly made use of by Sir Thomas Cavendish, when he took a great Manilla Ship, Anno 1587, and of late by the Captains of the Duke and Dutchess when they did the like, is called Porto Seguro, or the Sase Harbour: here is a good Harbour indeed for Ships of any Burthen, well secured from most Winds, but especially from the N. and N.W. or N.E. Winds, which chiefly blow on this Coast: and here you may ride very easy in what Depth of Water you please.

From hence the European Ships, which design to return by the East-Indies, take their Departure, steering S.W. to get into a more southern Latitude: and this Landlikewise the Manilla

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Ships (as above) make as they come down from Cape Blanco, and from hence take their Departure, steering S.E. by E. for Cape Corientes on their way to Acapulco.

Some Spanish Charts do indeed describe several other Islands, and give Names to them also, lying dispersed in several distant and remote Places in the great Ocean, and particularly in the Latitudes of 20 to 25 and 30 d. N.W. from Juan Fernandes, but at a vast distance to the westward; some of them from 500 to 700 and 1000 Ls from the Shore of America: But as we have no more than the single Authority of those Chart-makers, and none even of their own Navigators give any Account of them, nor that any European Sailors have seen them, much less toucht at them in their Passage, except what was described by Le Maire, we think tis altogether needless to speak more of them.

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nt. St. Albans Head. Portland Road, a. Portland Race. Weymouth. Limenouth, 12. b outh. Torbay. Dartmouth. The Start. e Boulthead. Plymouth, 13. a. The dystone. Foy. Falmouth Haven, 13. b. rd. The Lizard. Mount's Bay. The ads End, 14. a. Whitsand Bay. Cape

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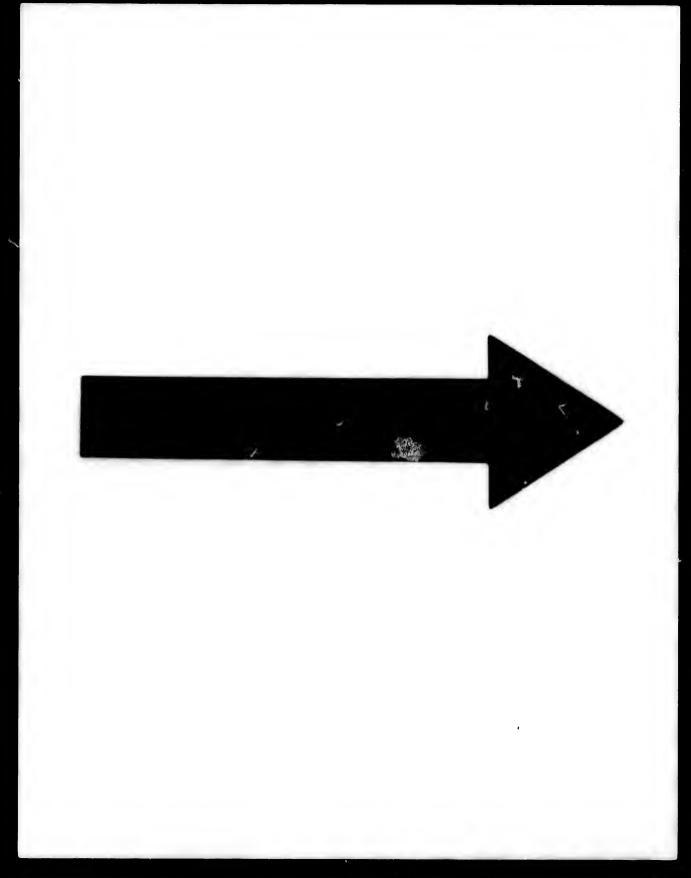
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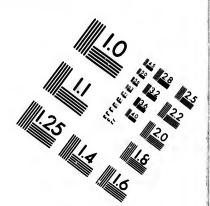
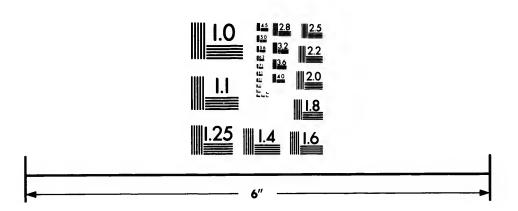
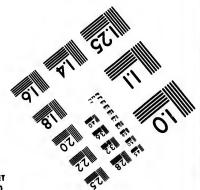


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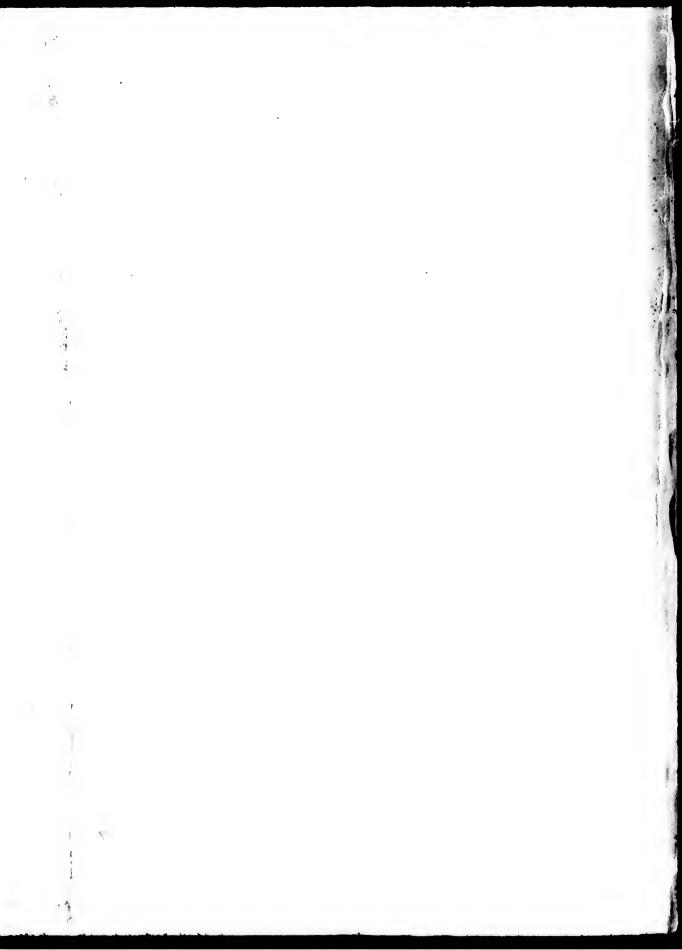
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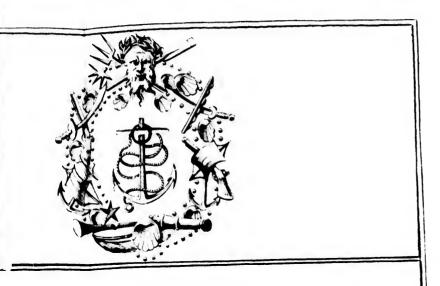












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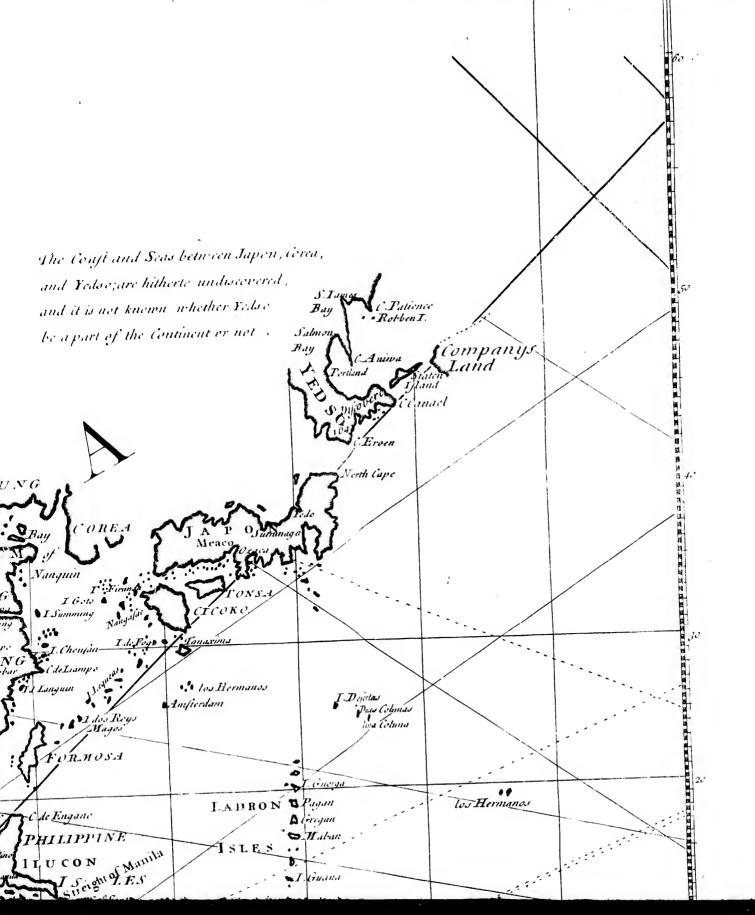
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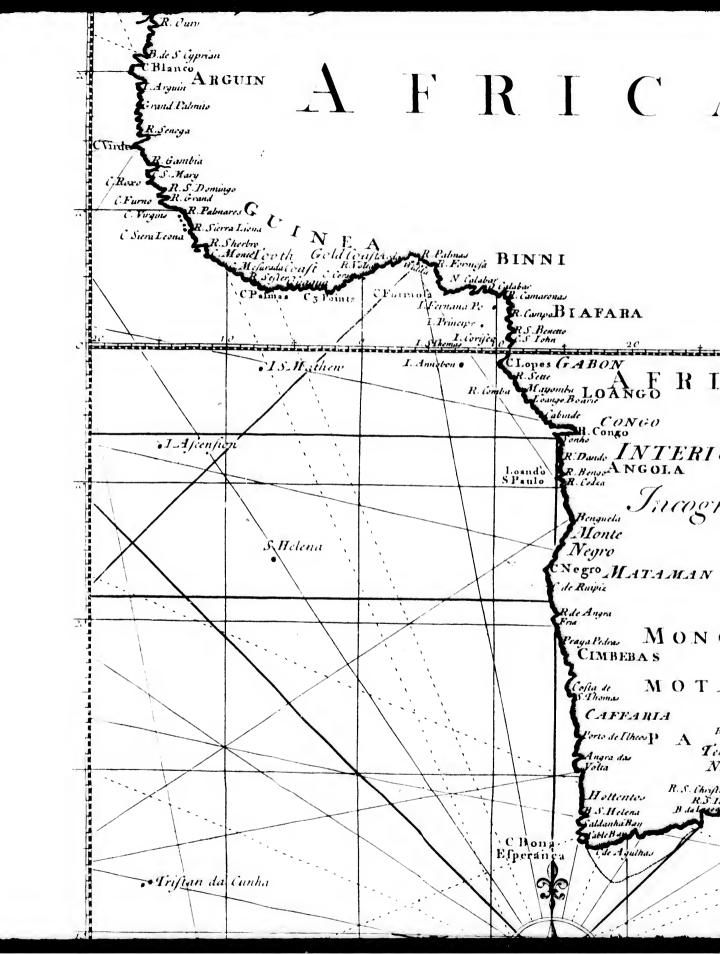
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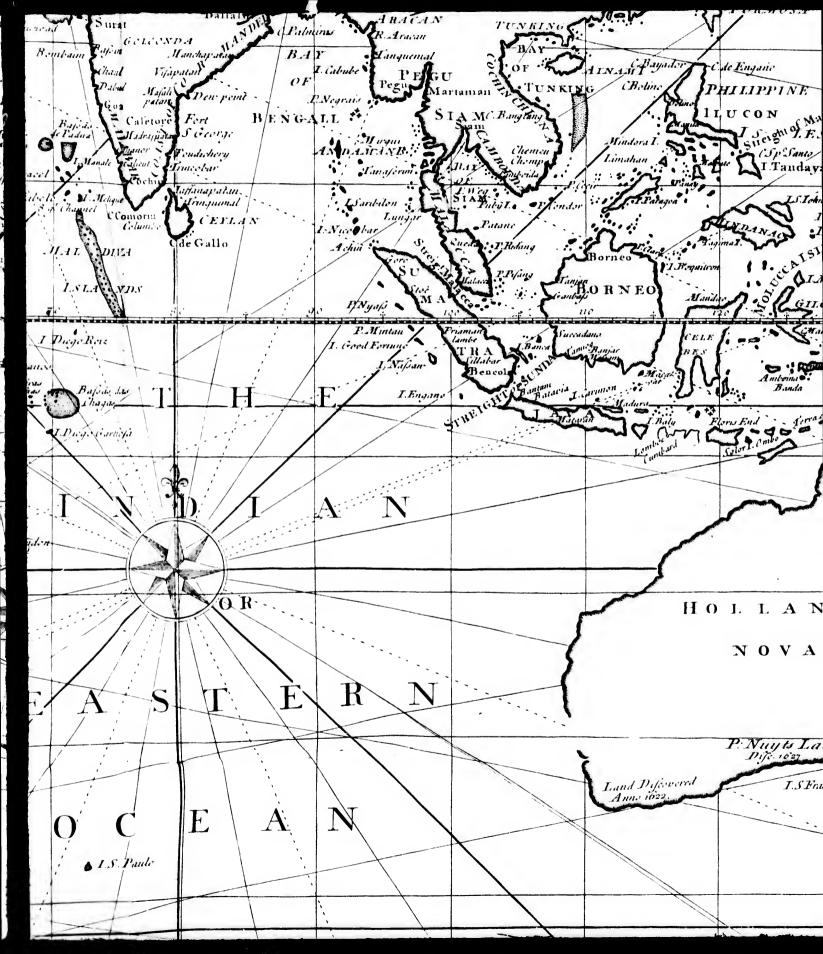
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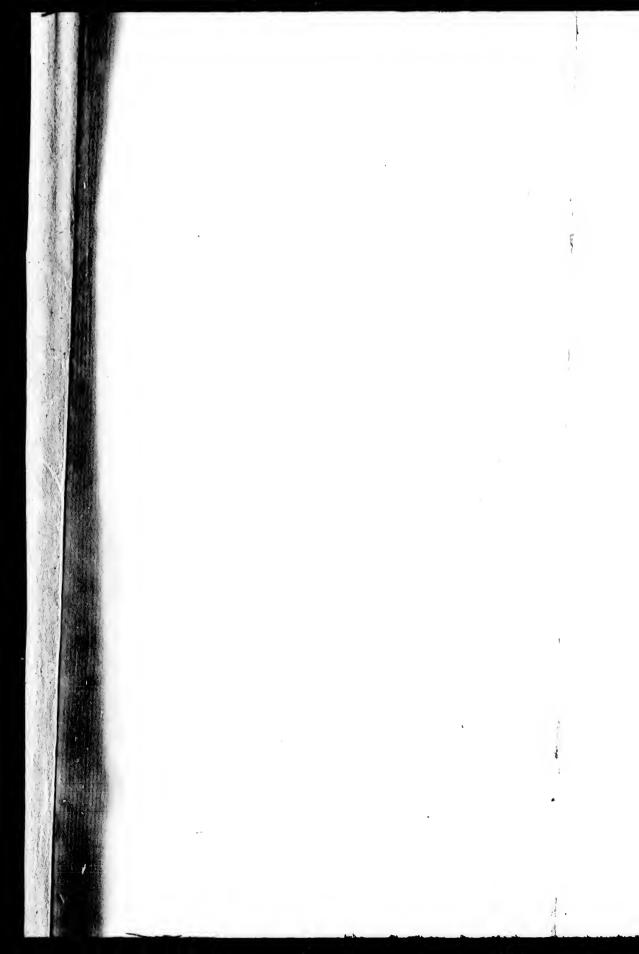


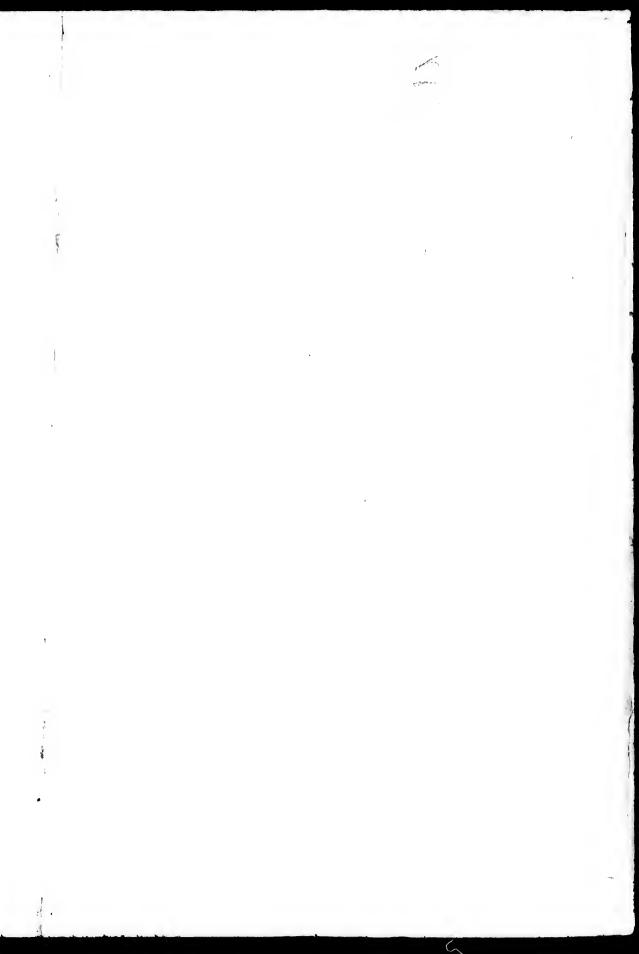


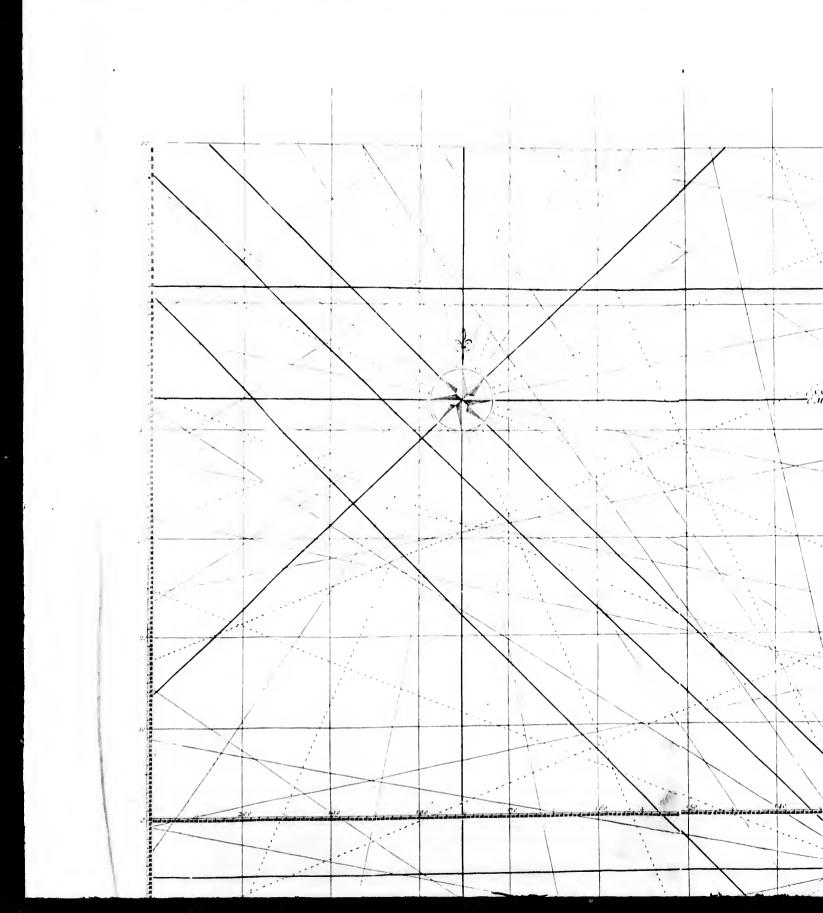


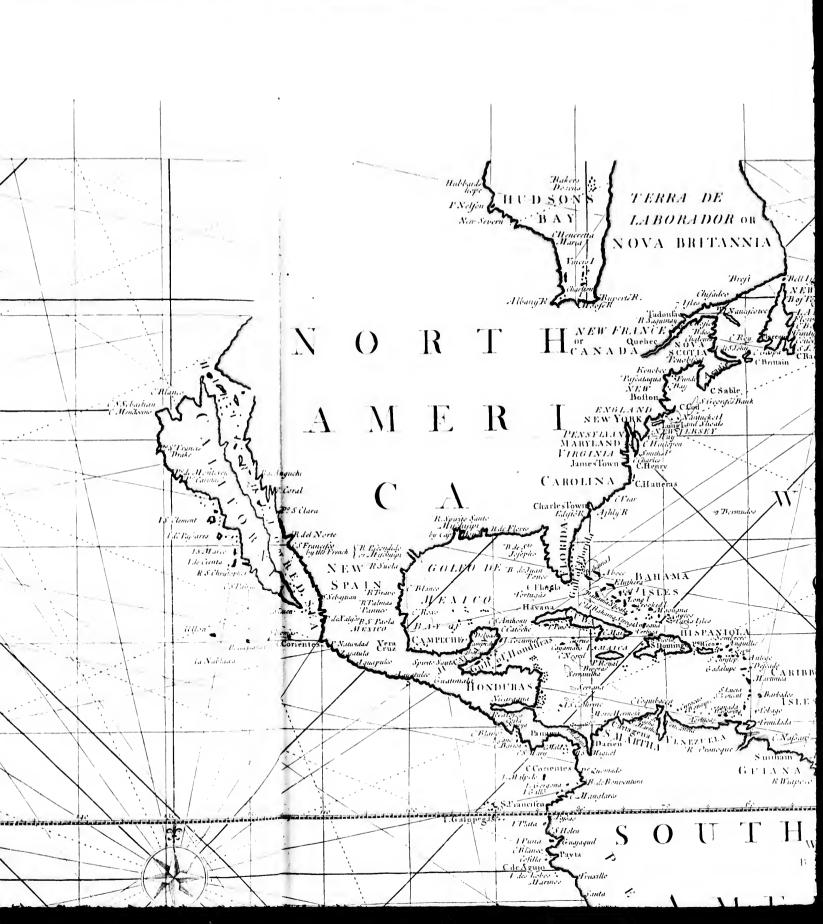


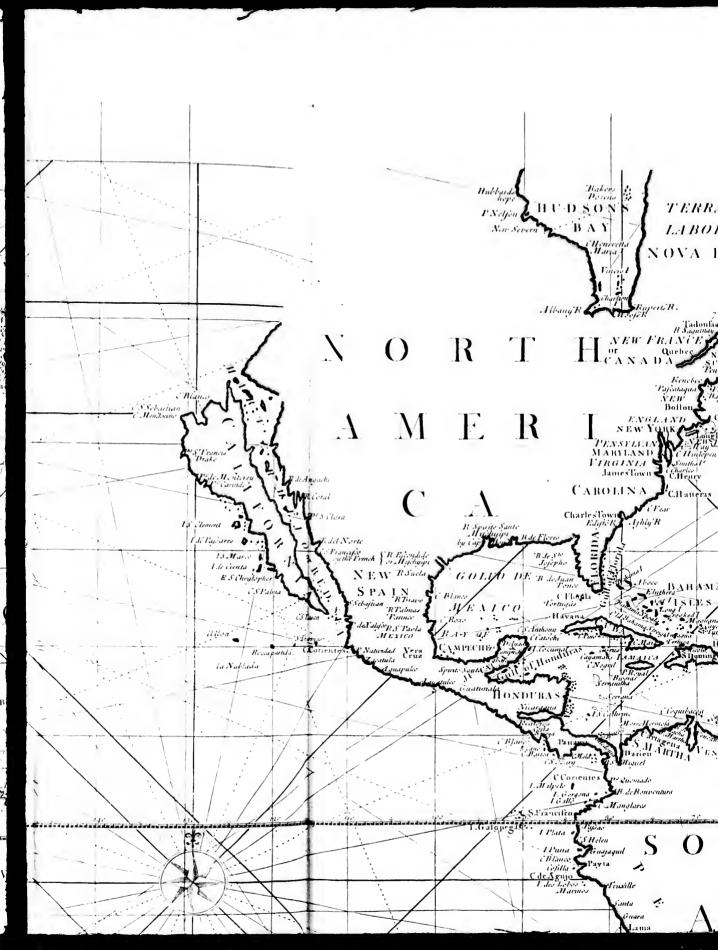




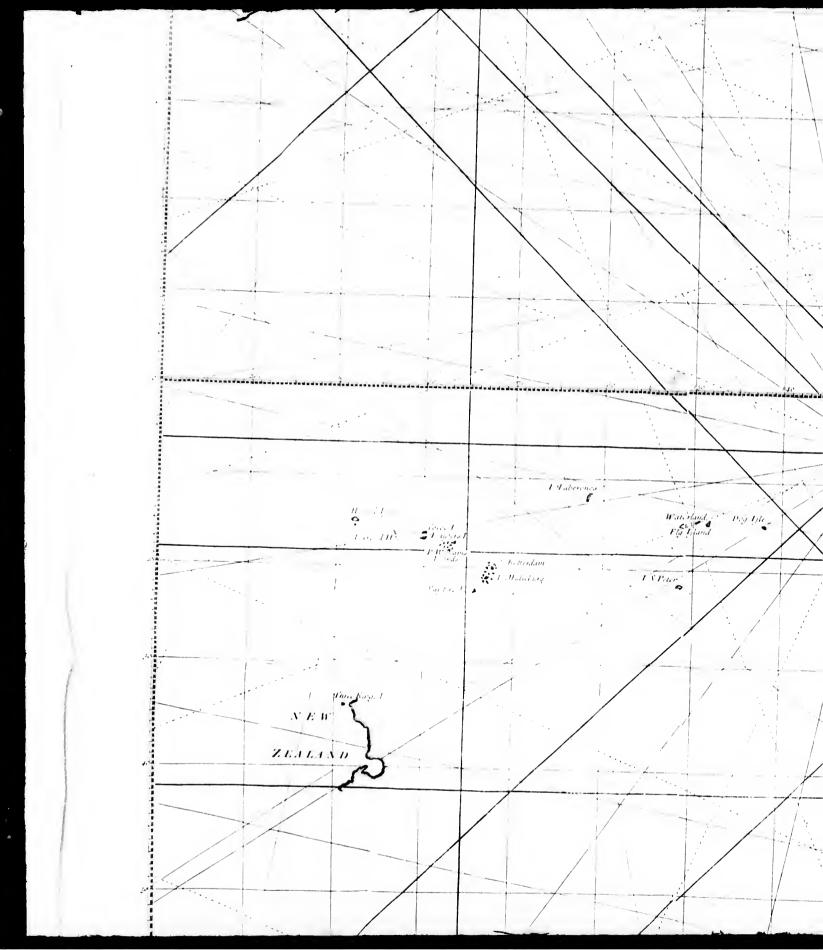




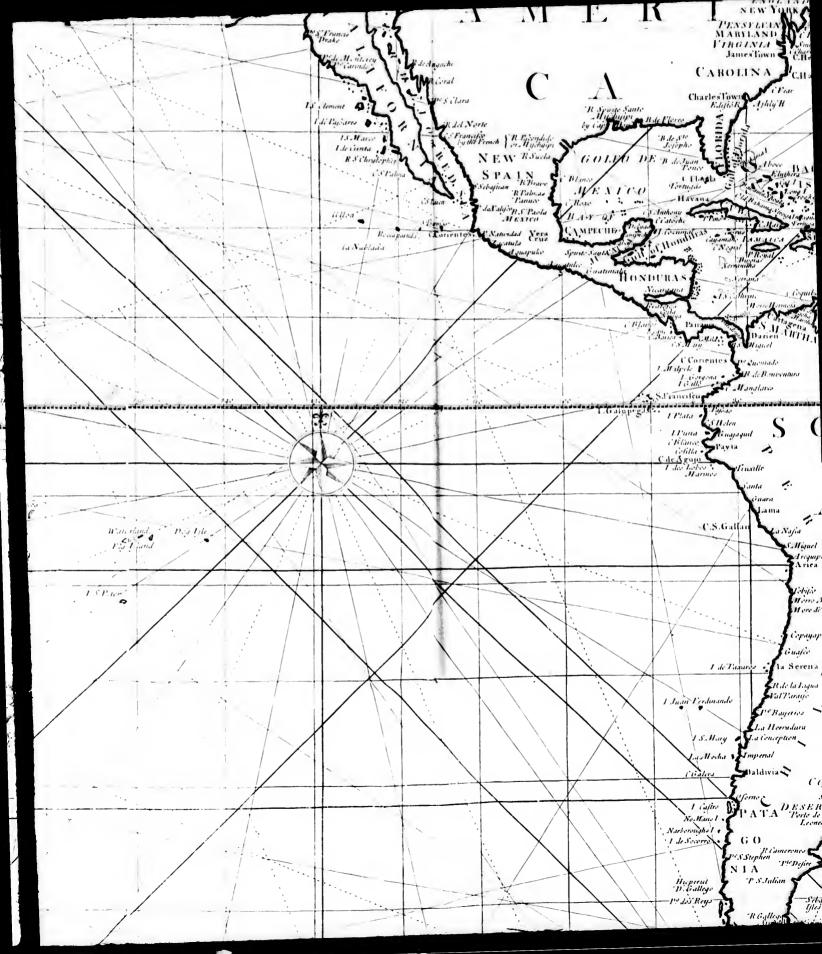








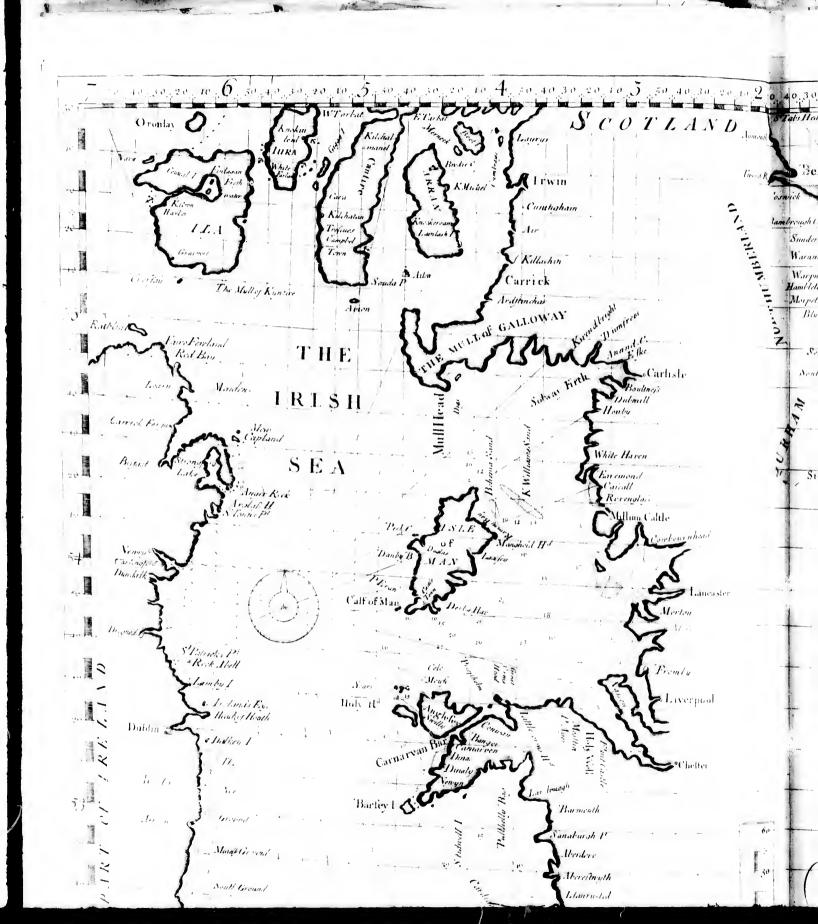


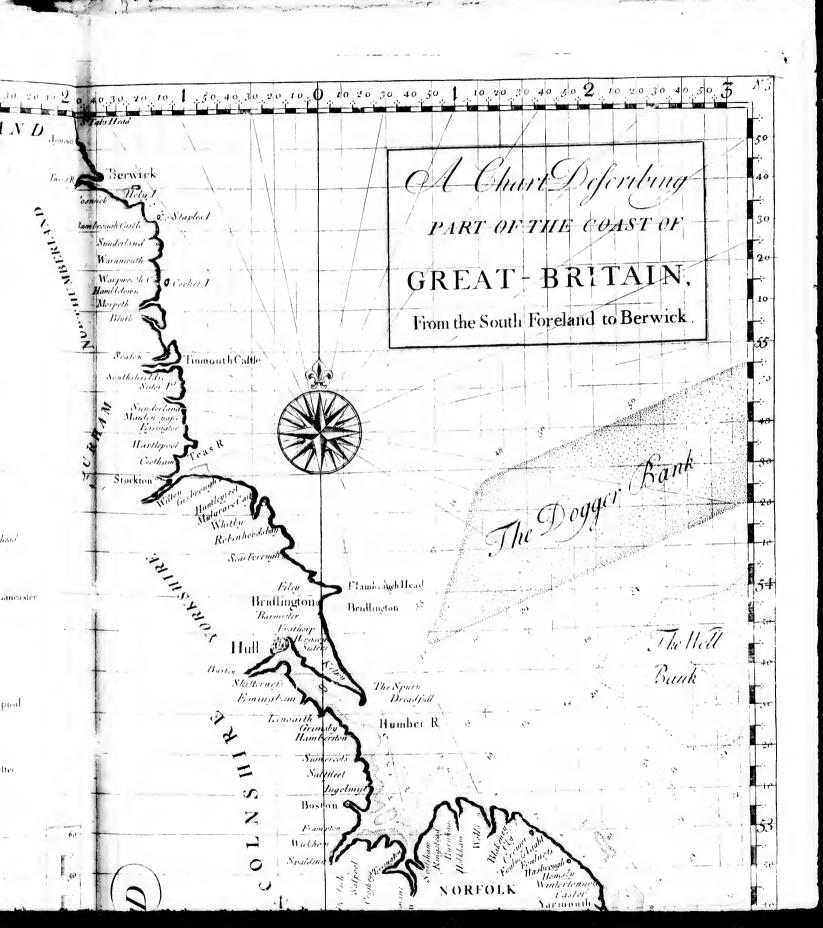






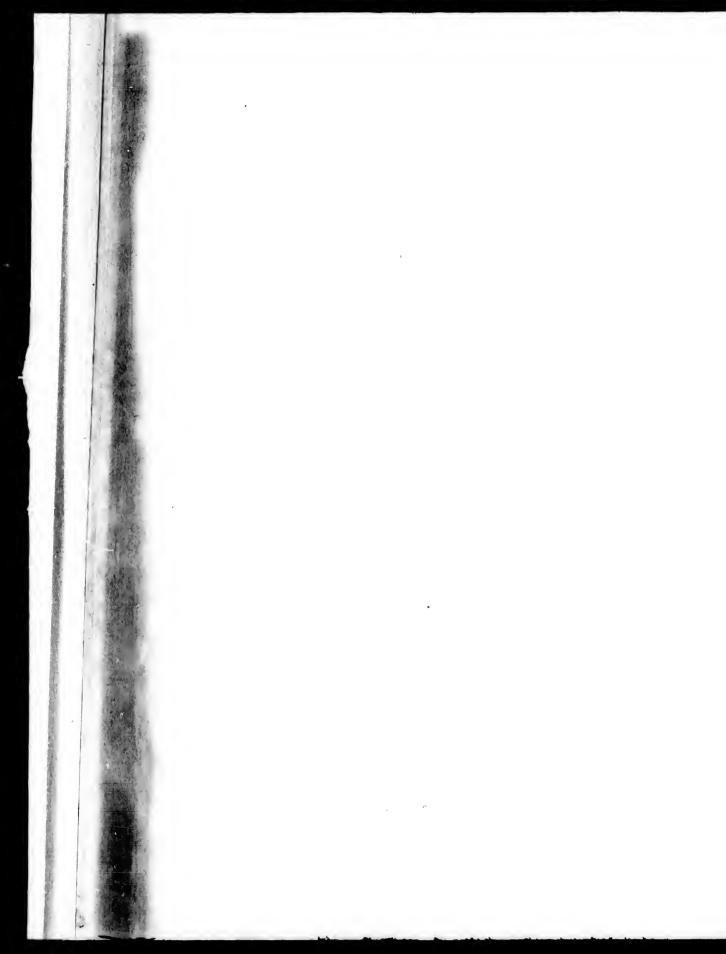


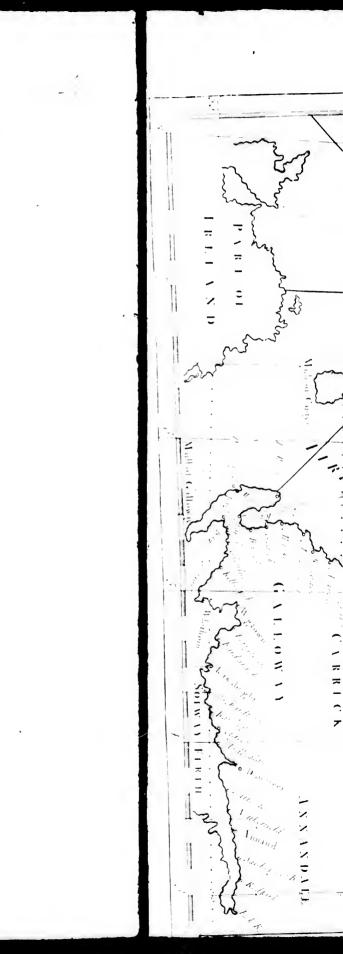




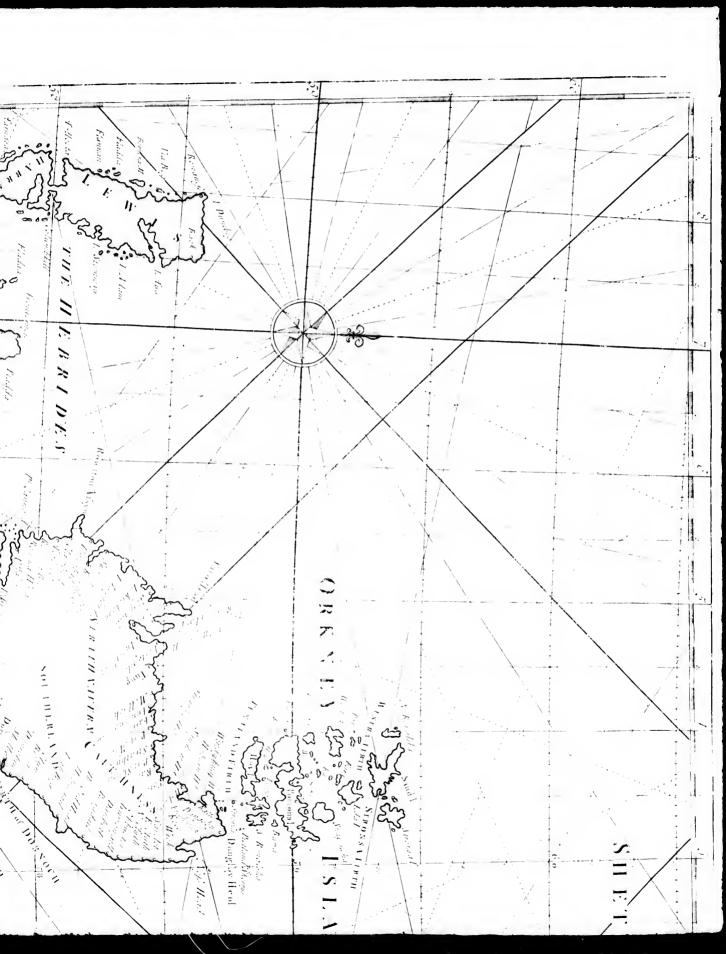


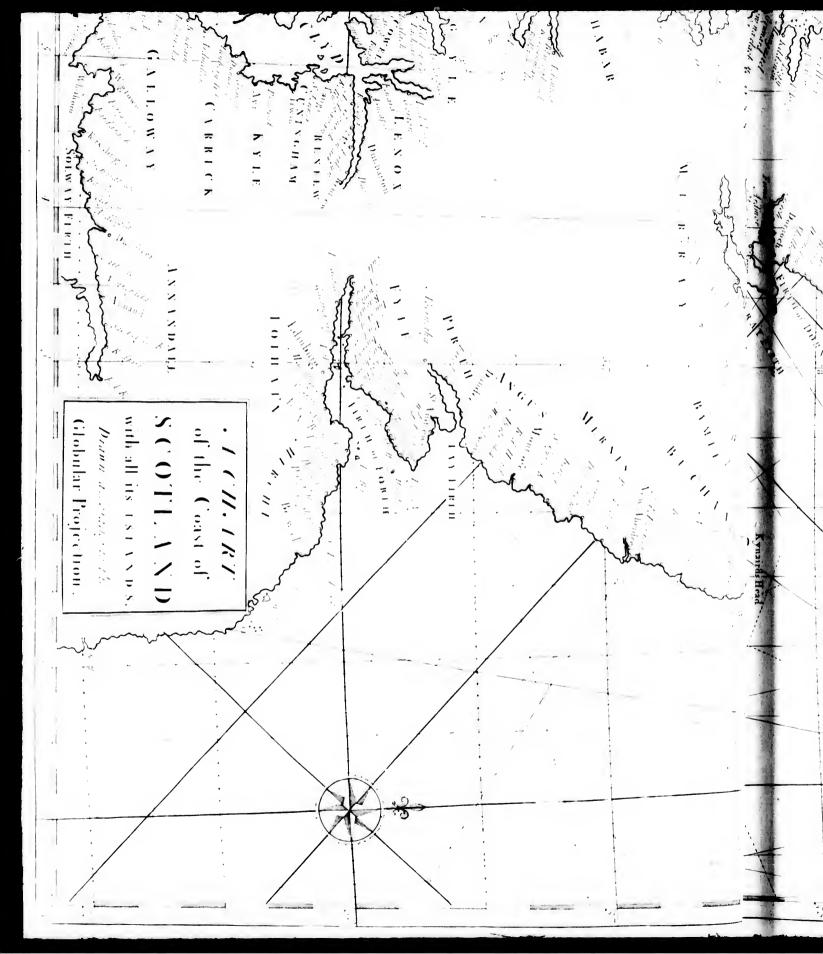


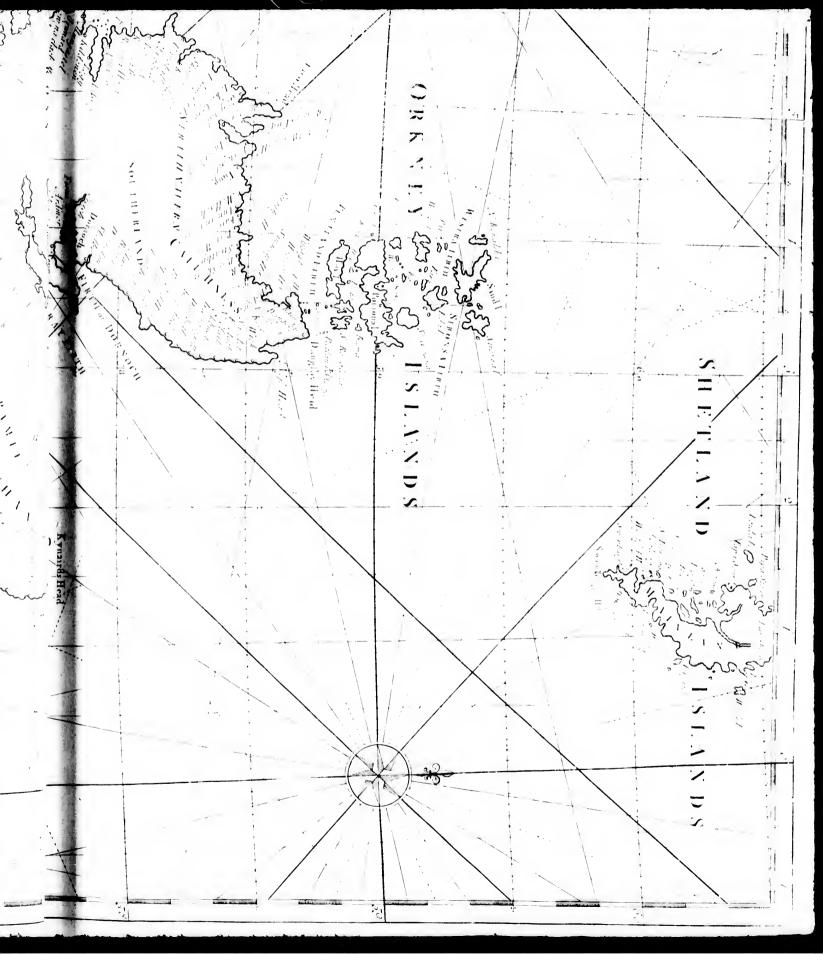


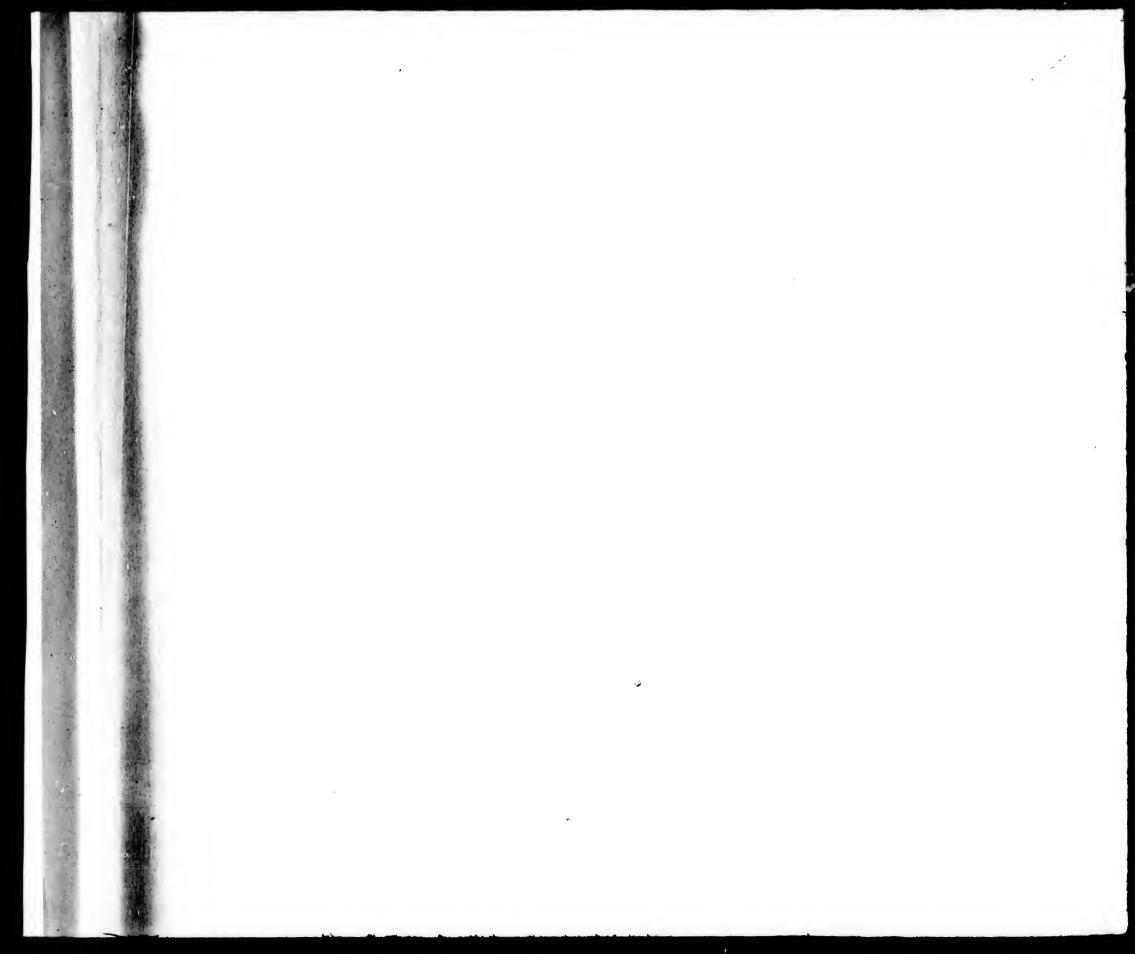


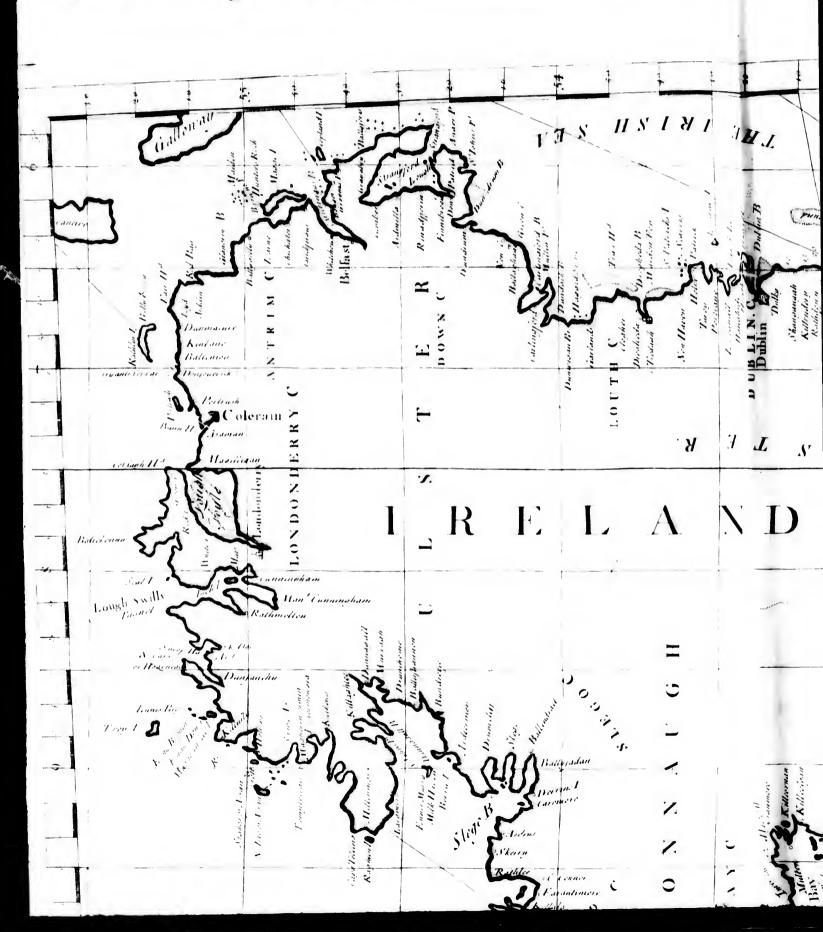




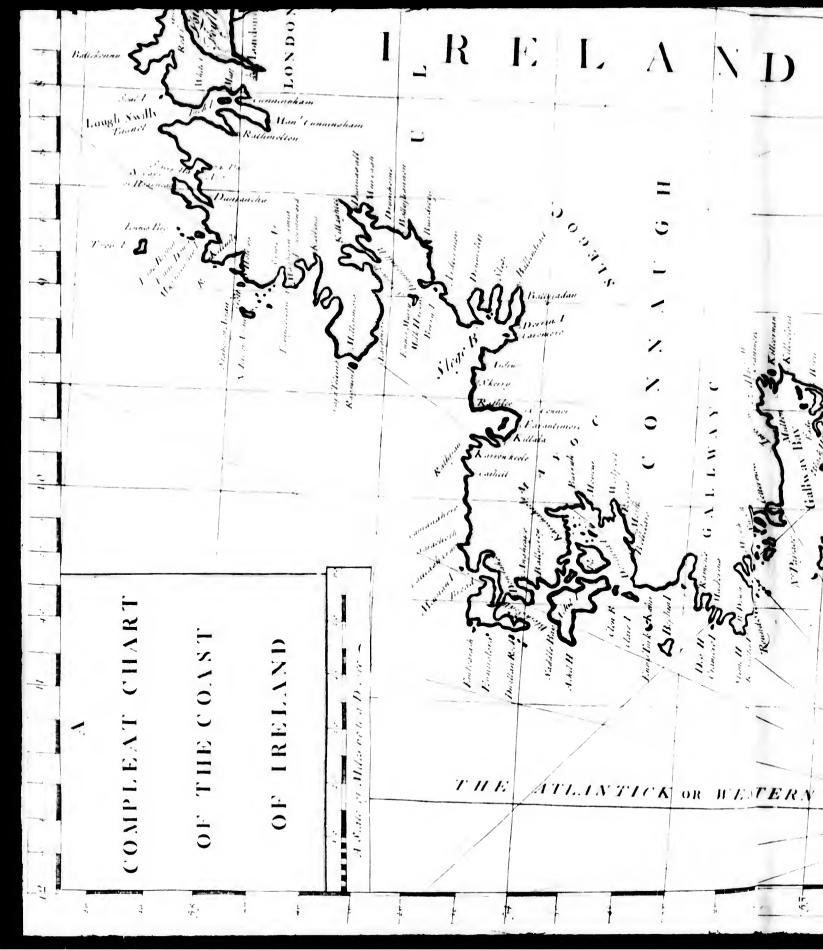


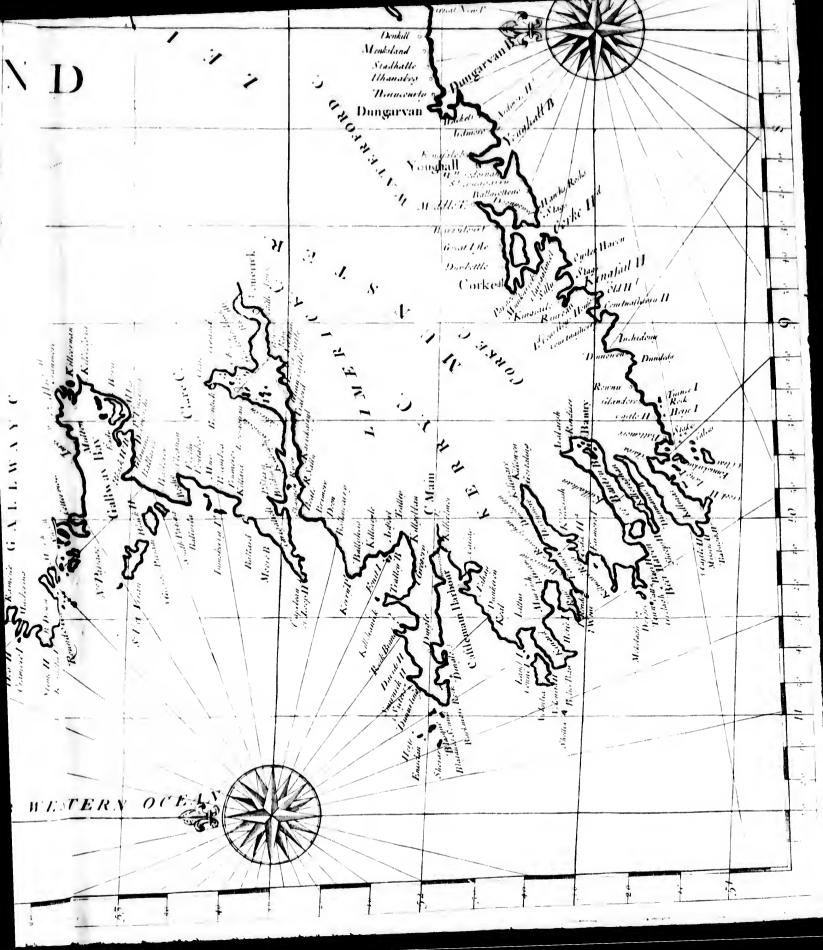


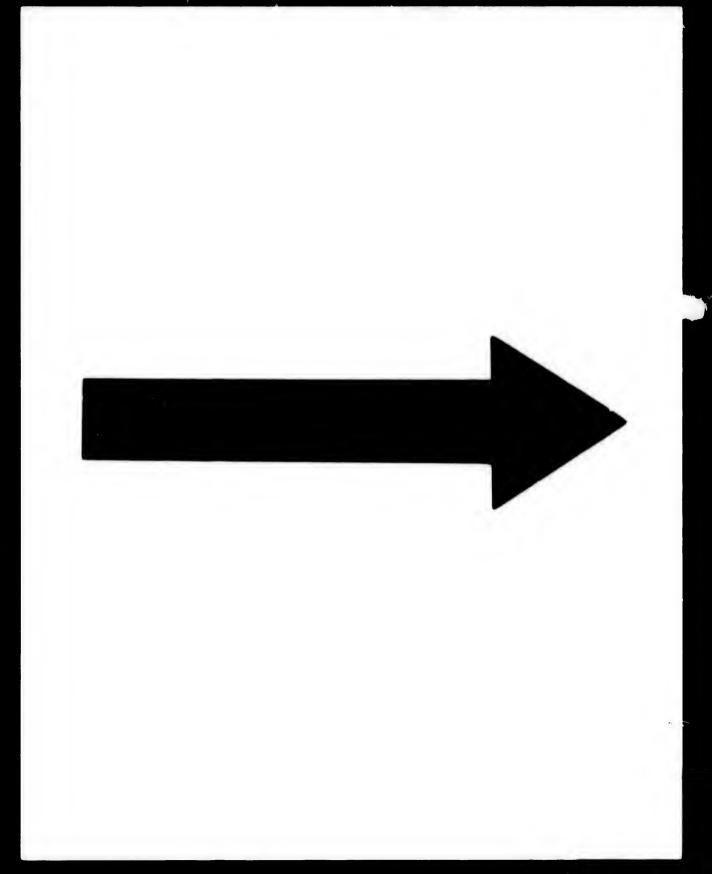












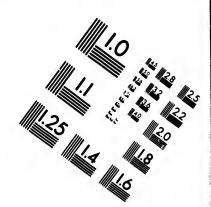
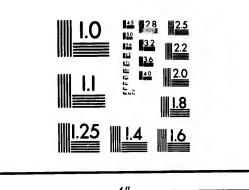


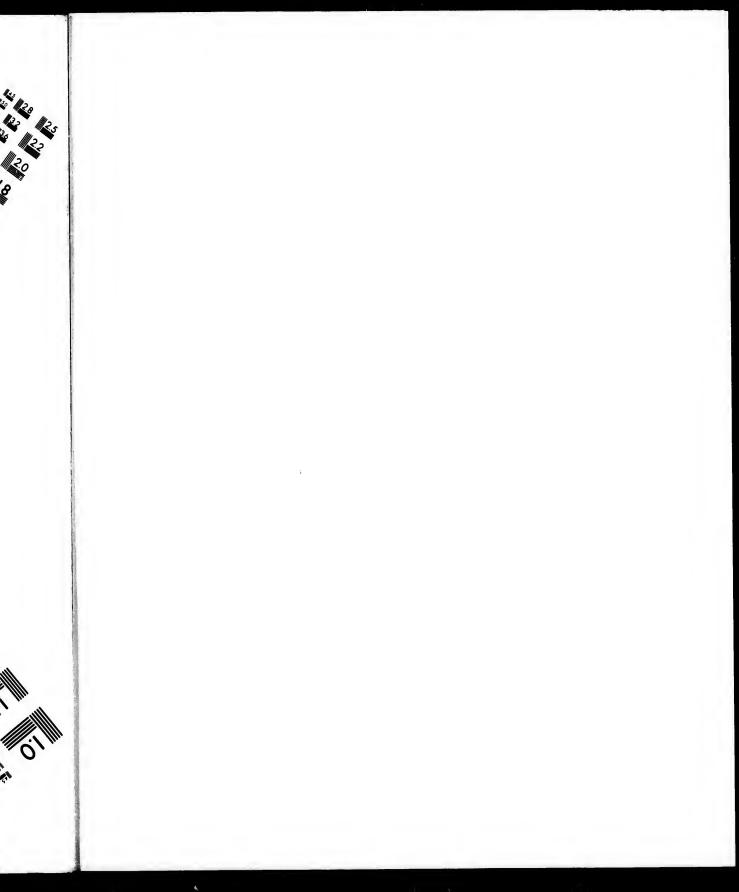
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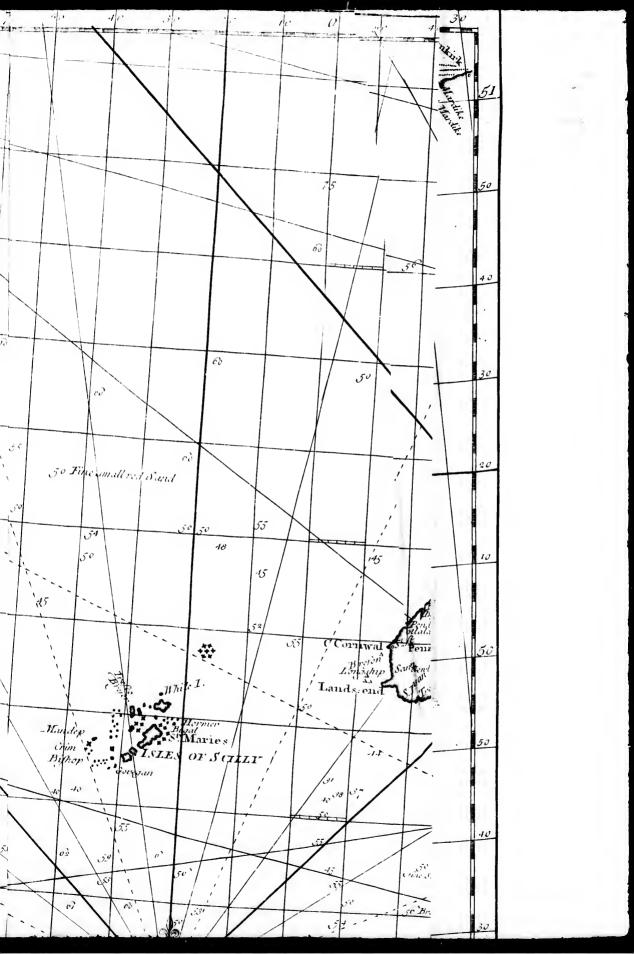
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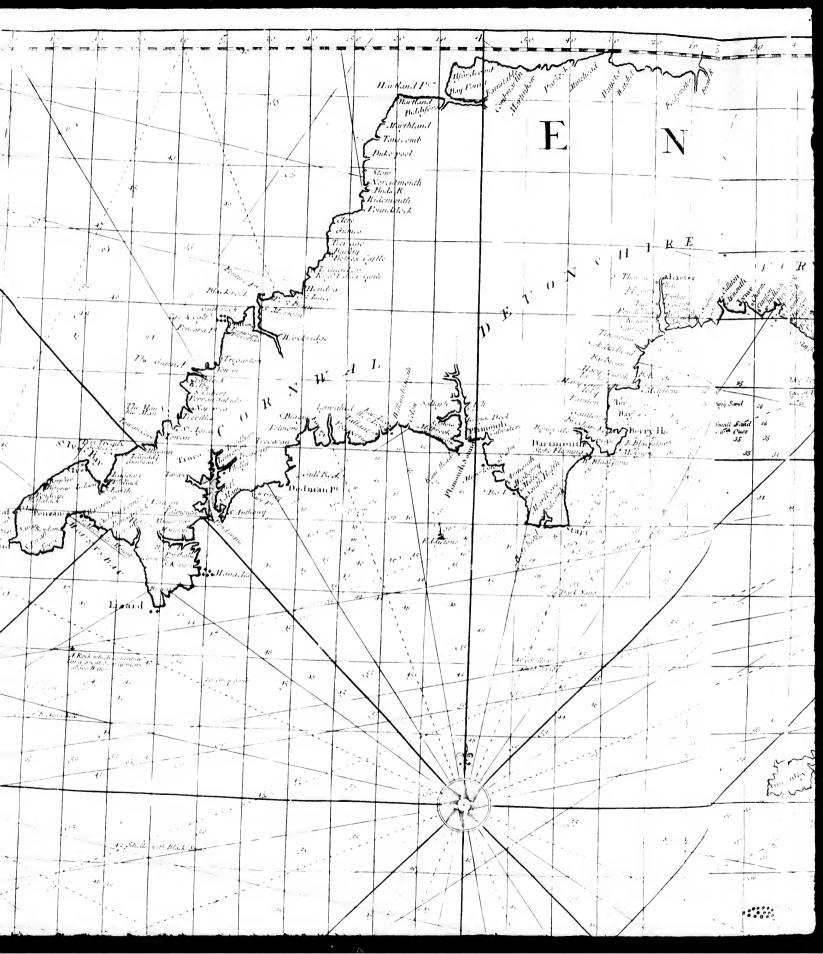
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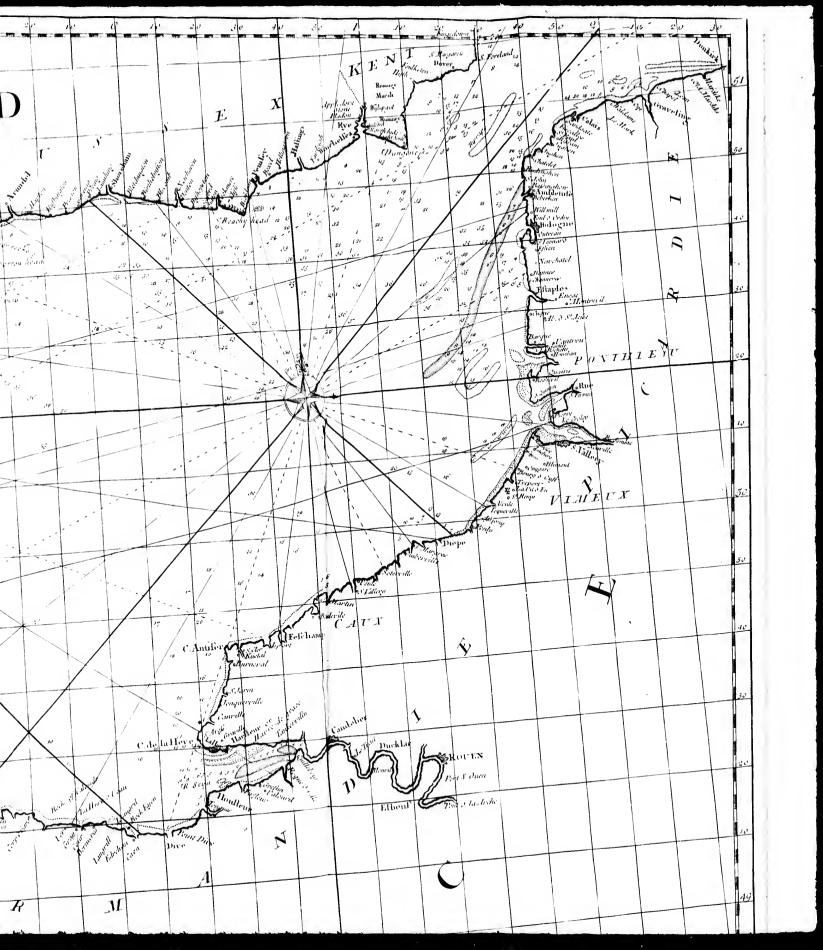


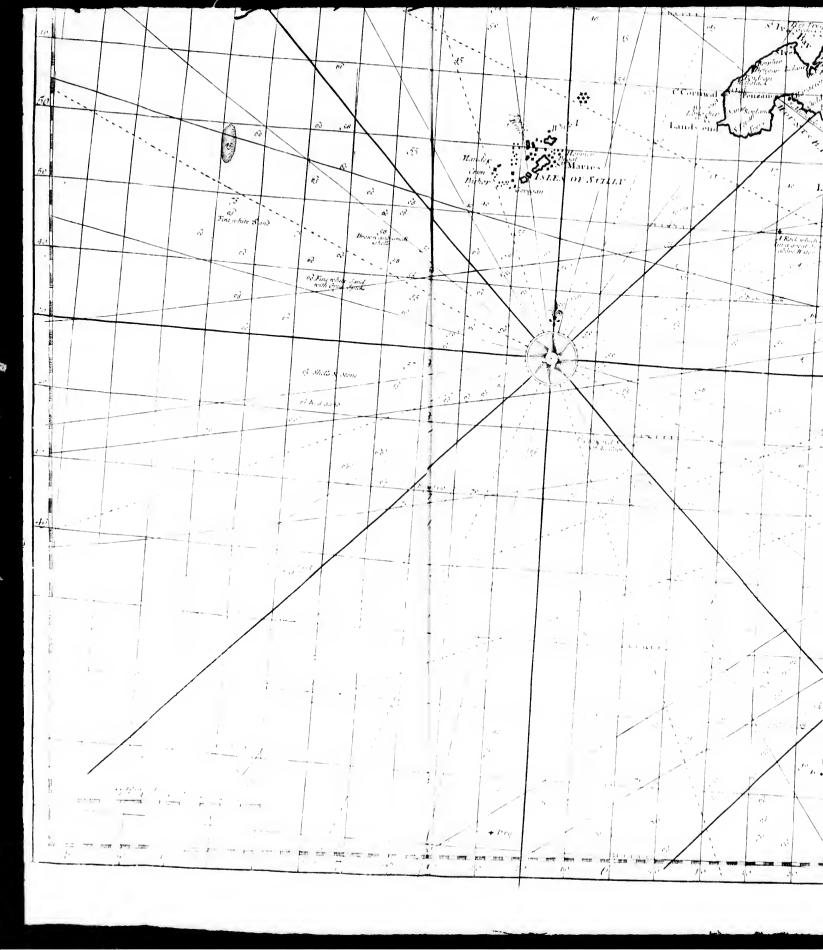


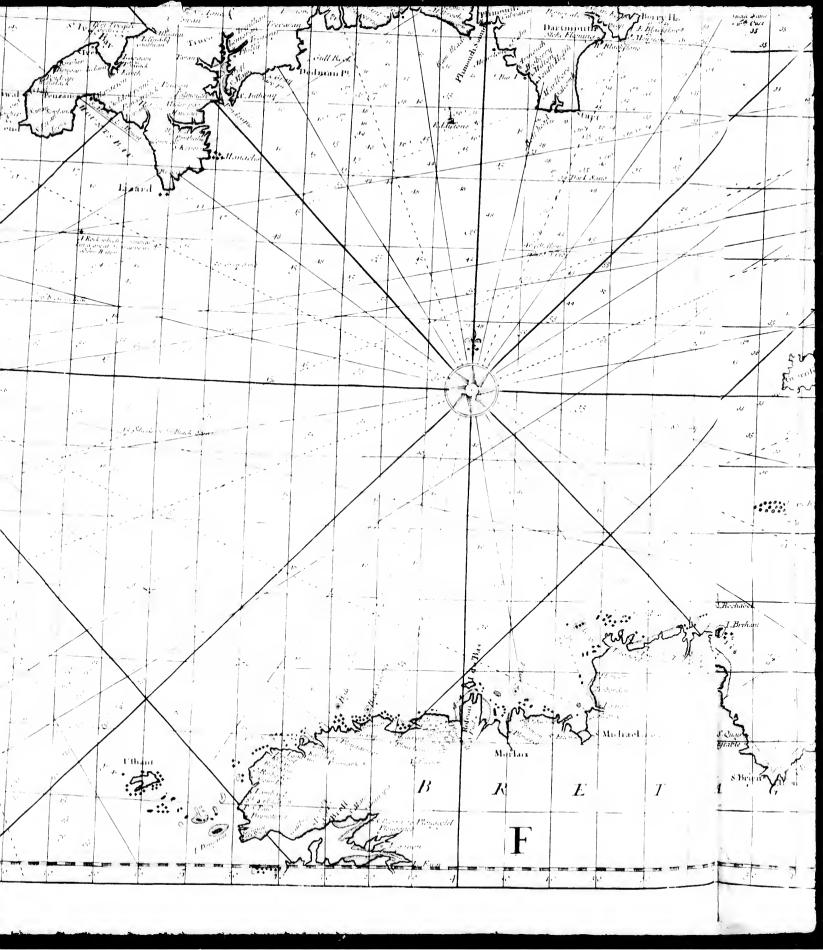


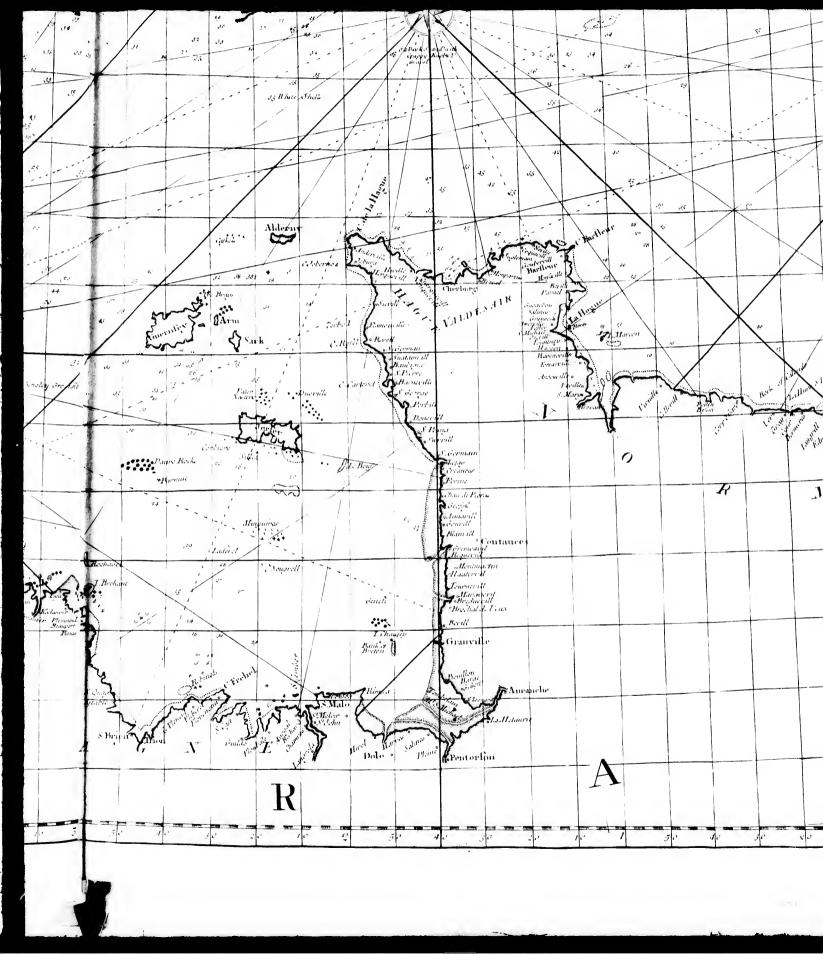


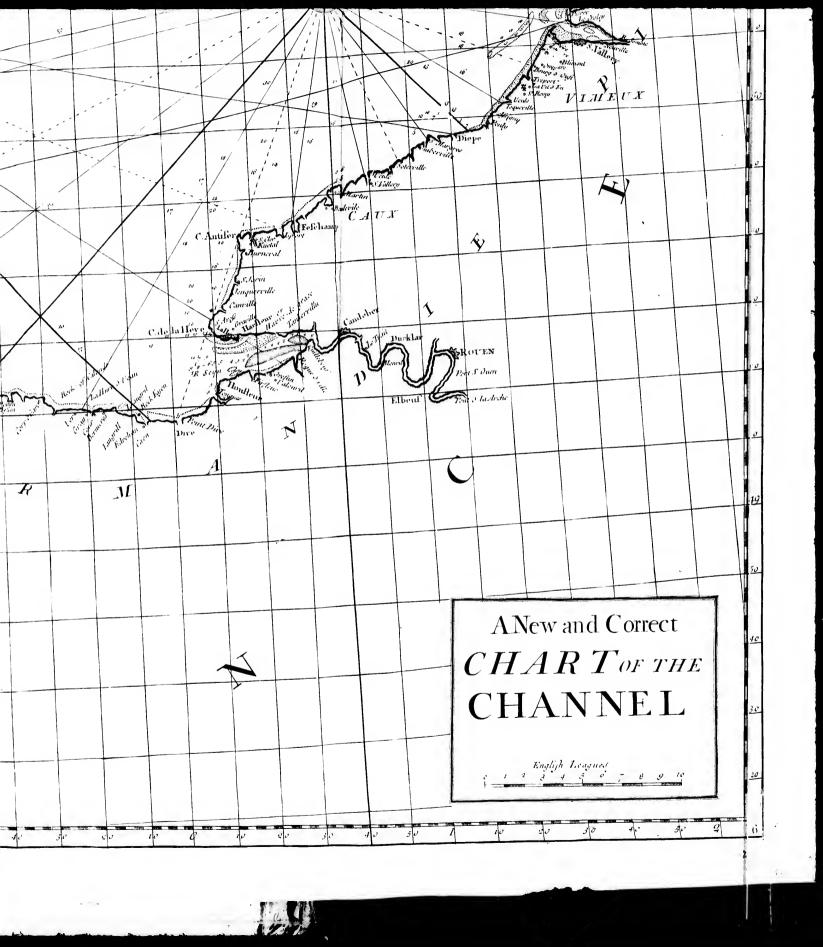




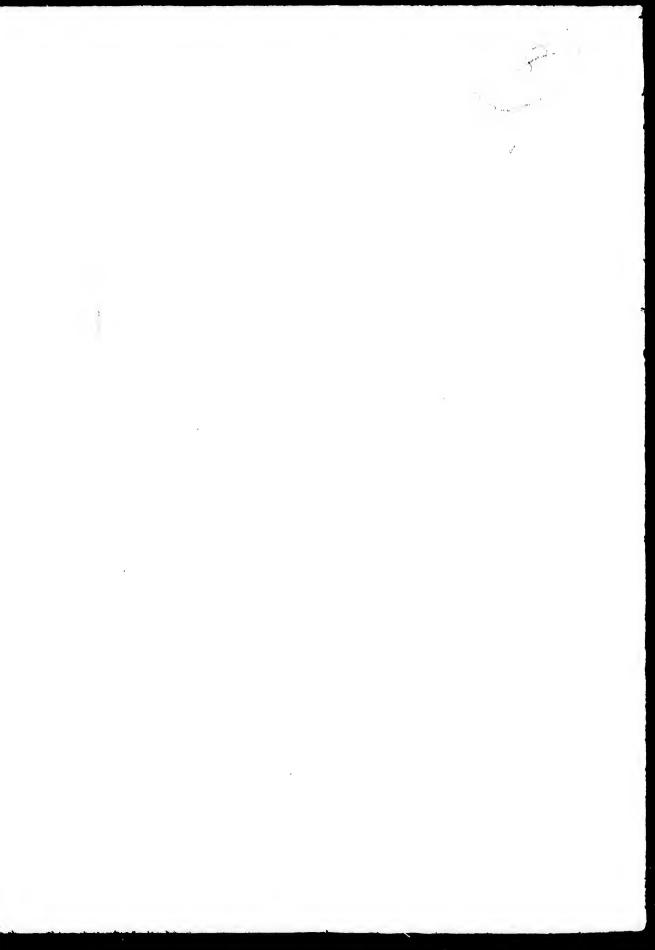


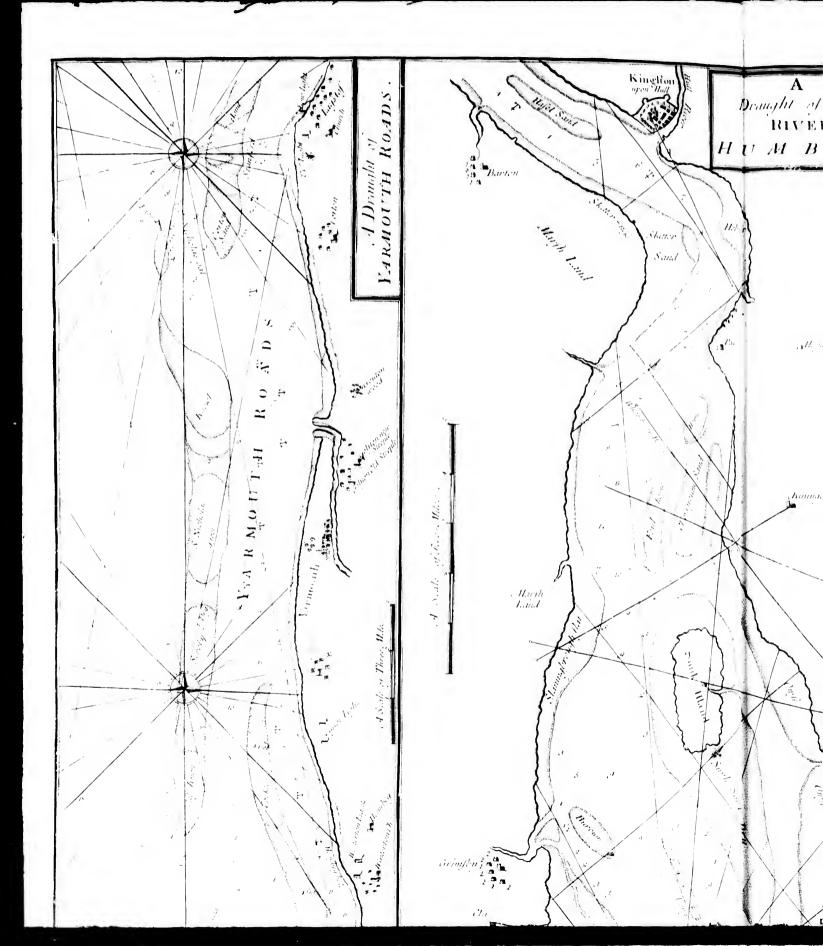


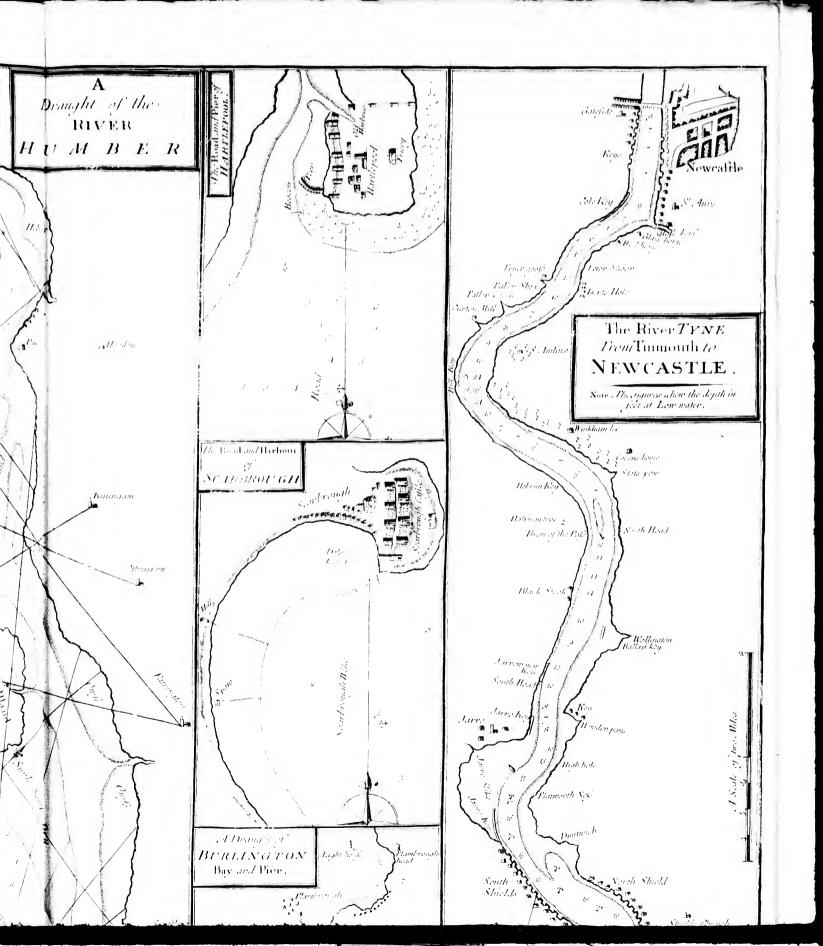


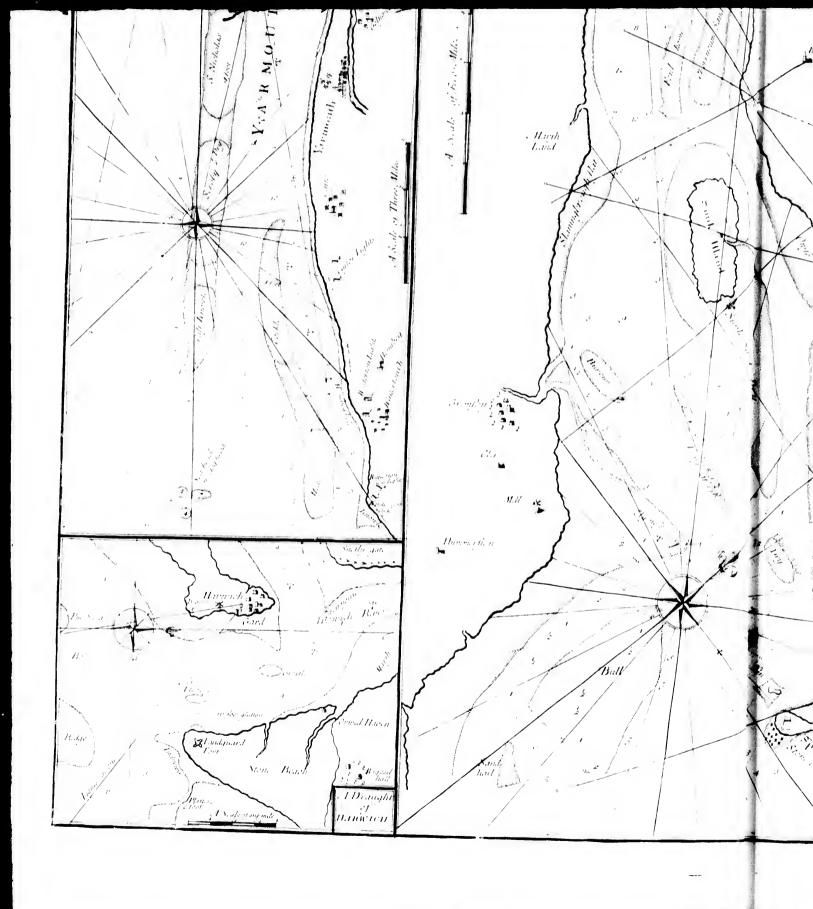


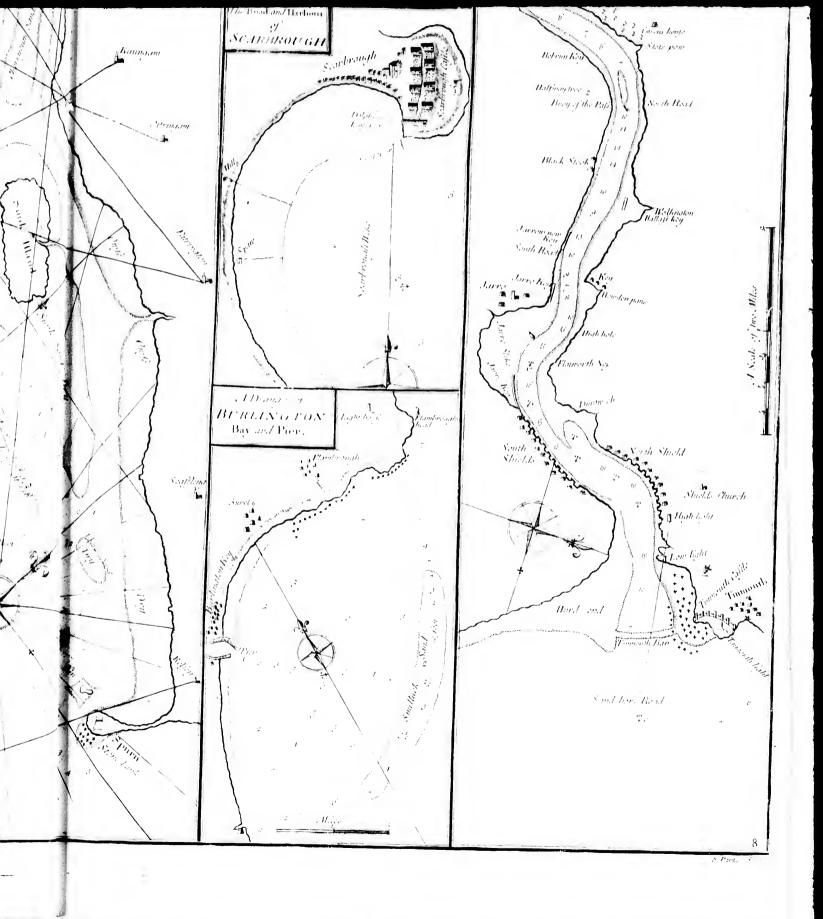




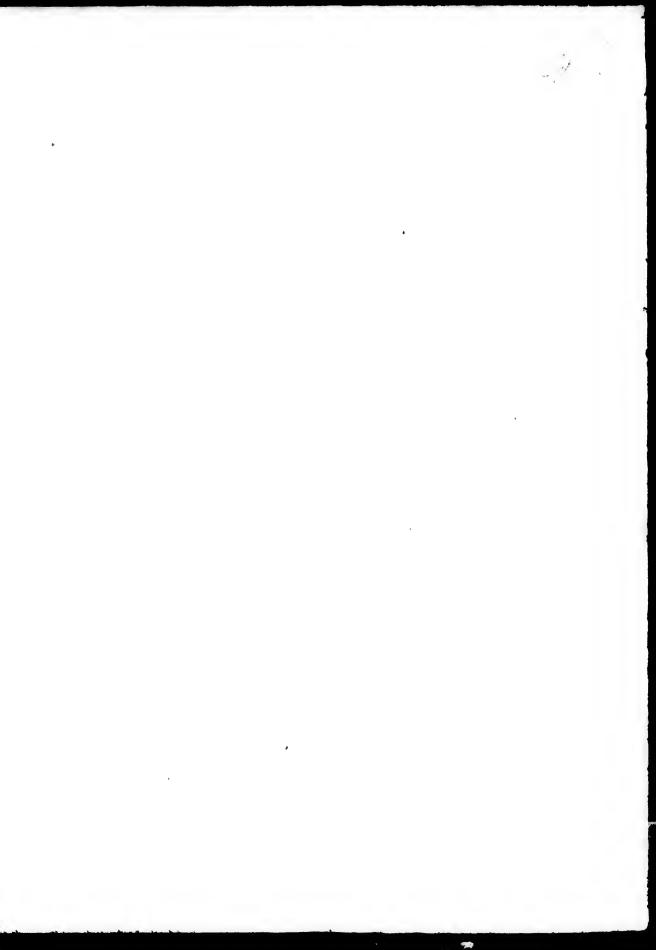


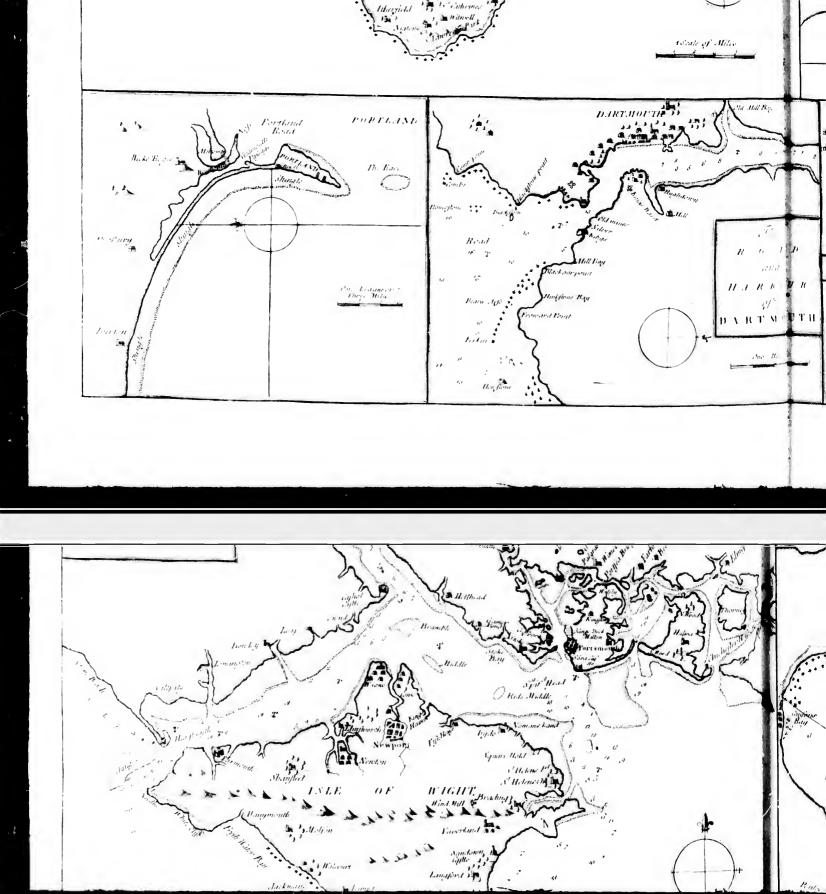


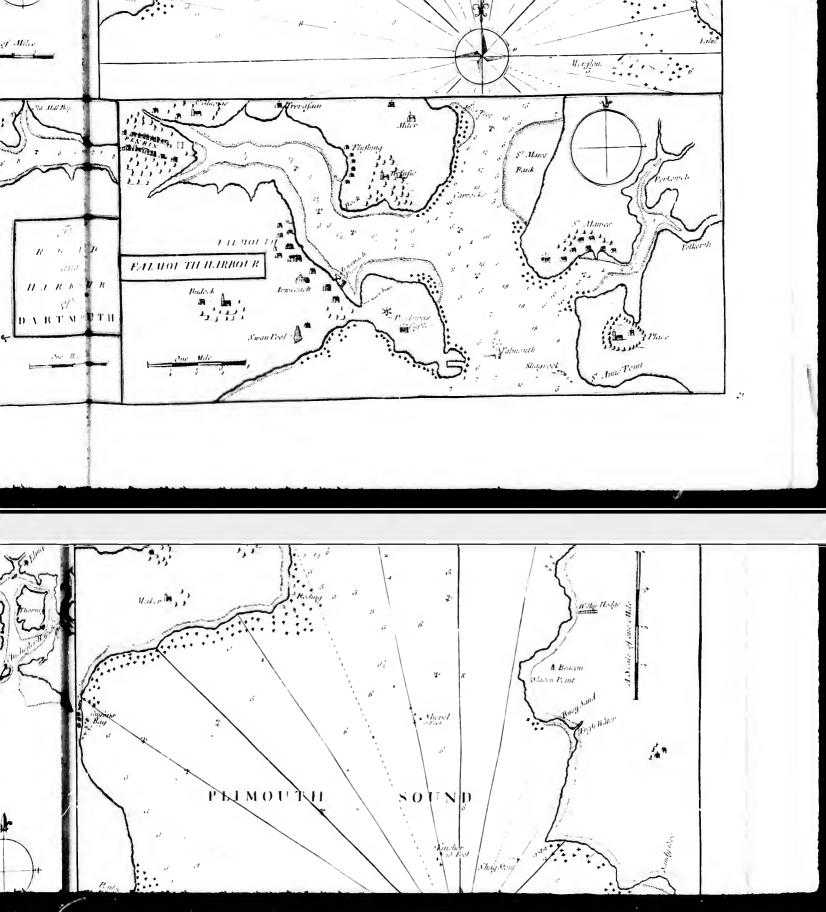


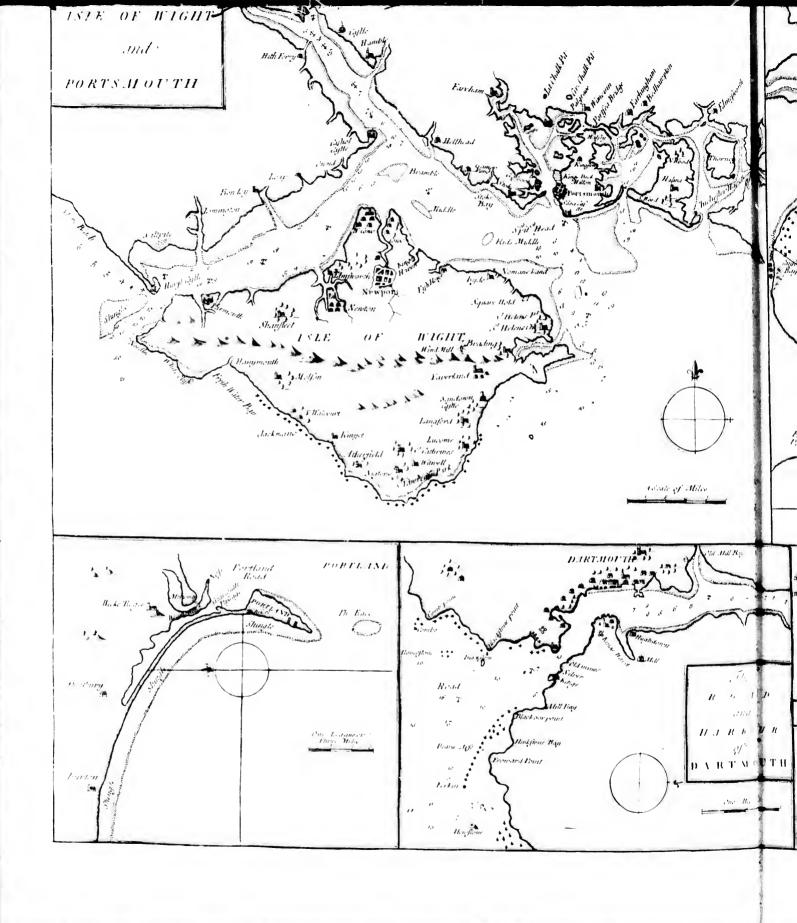


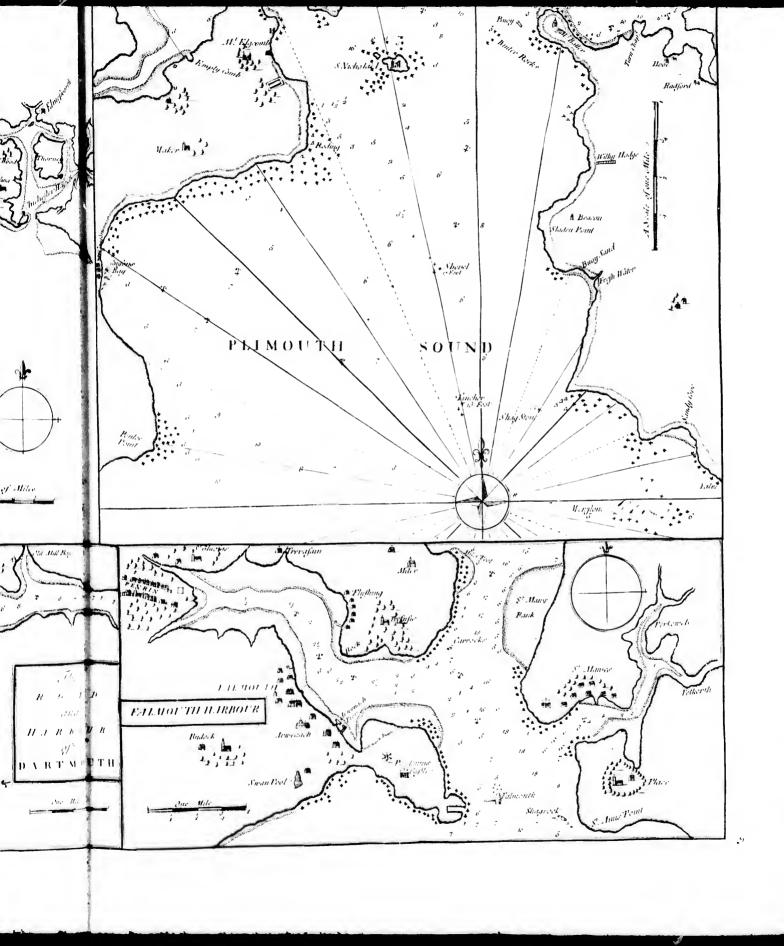






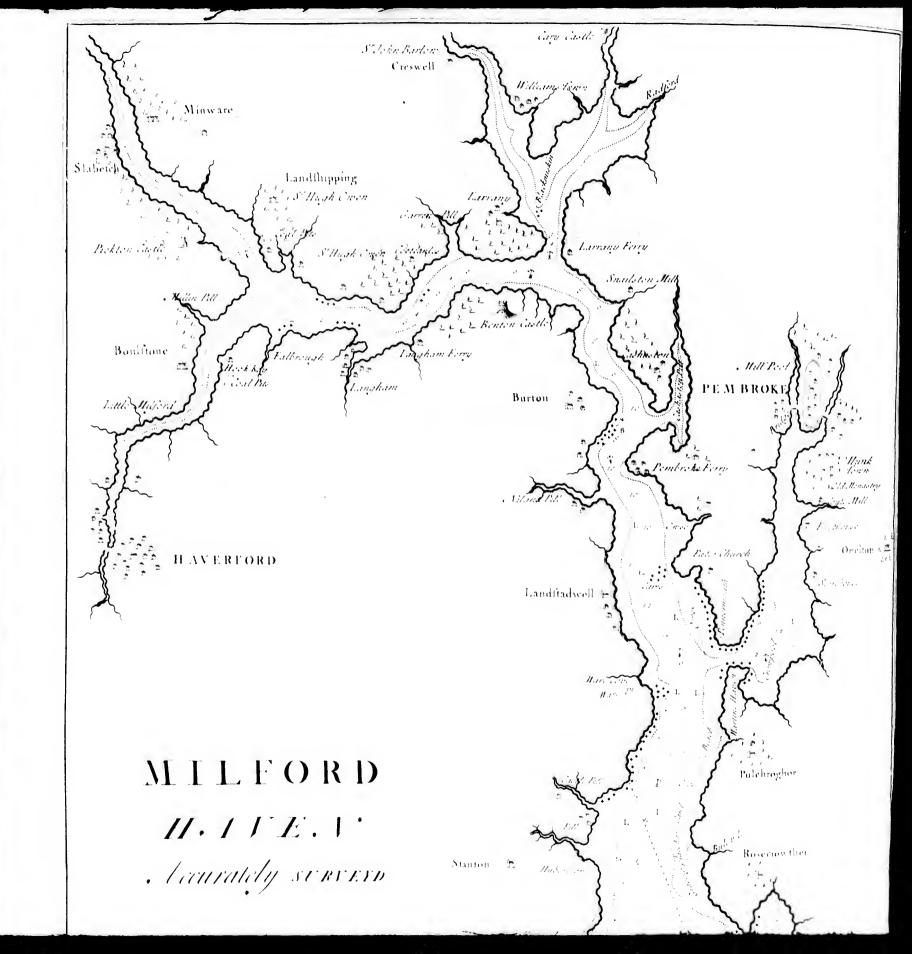


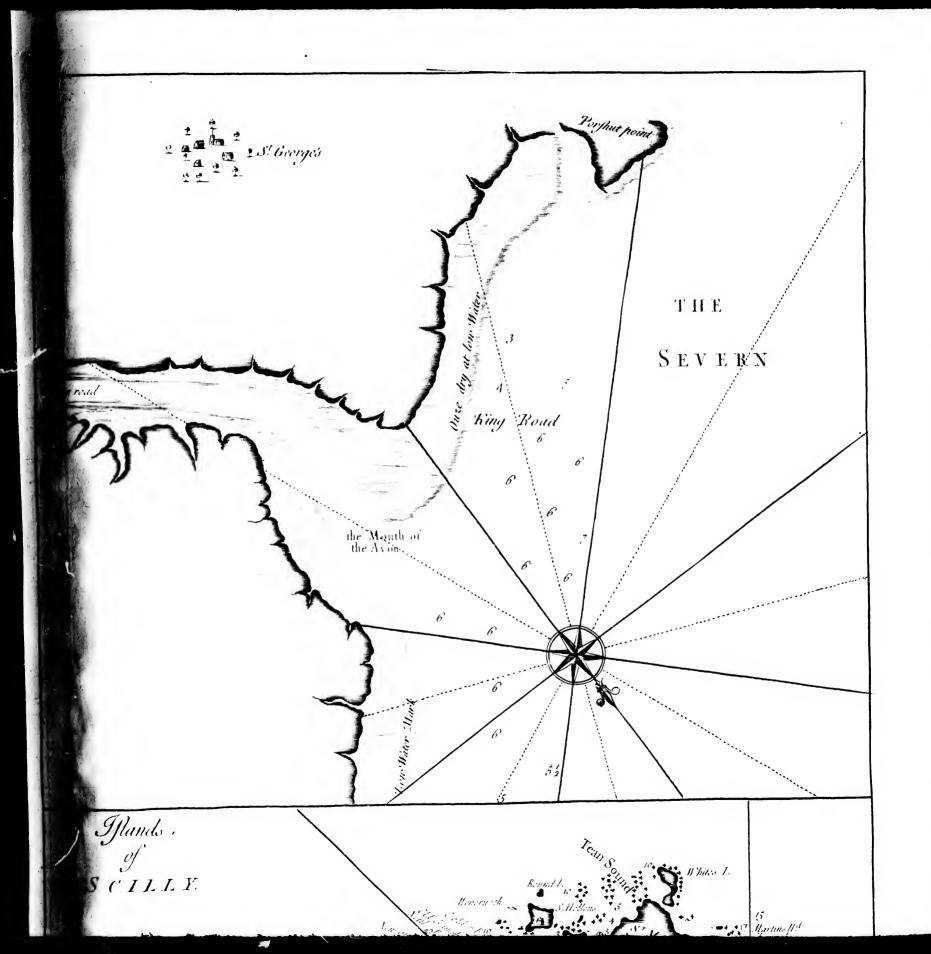


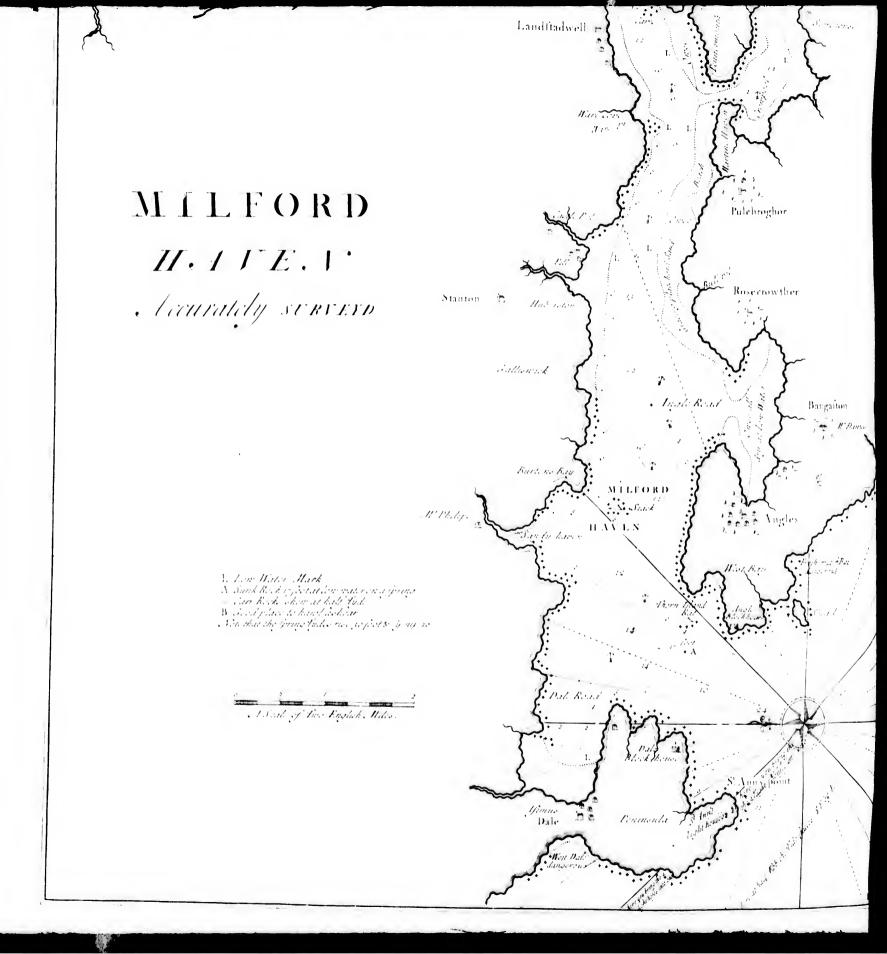


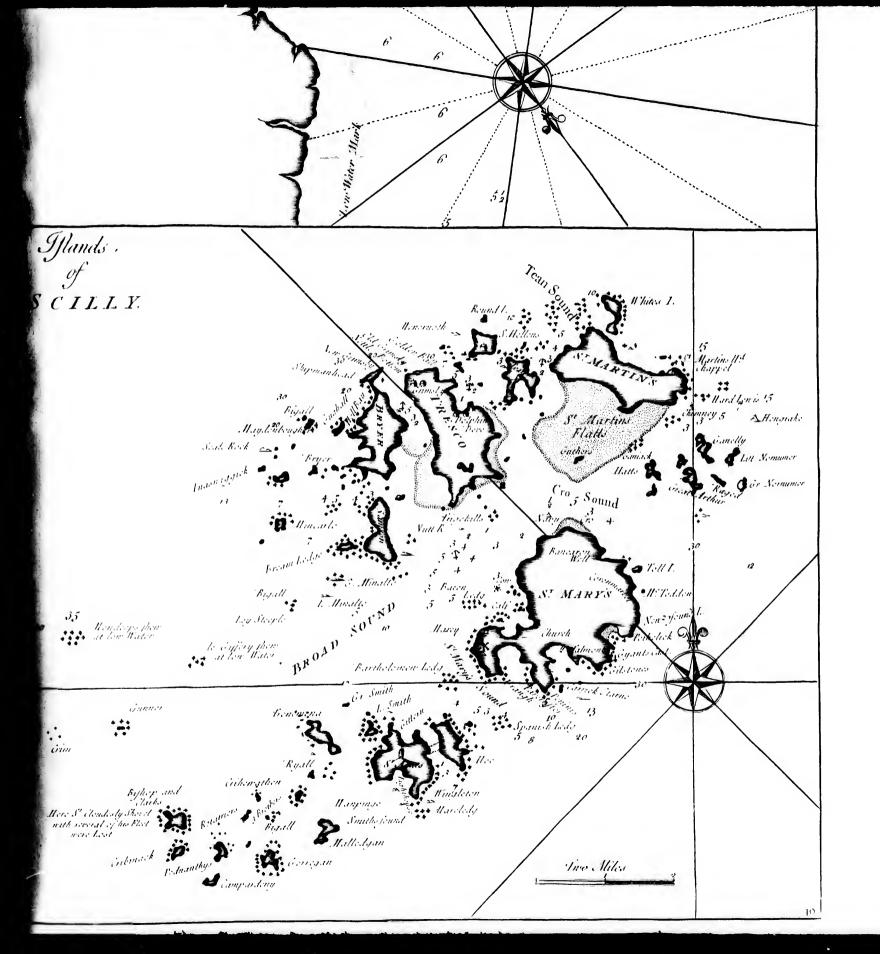




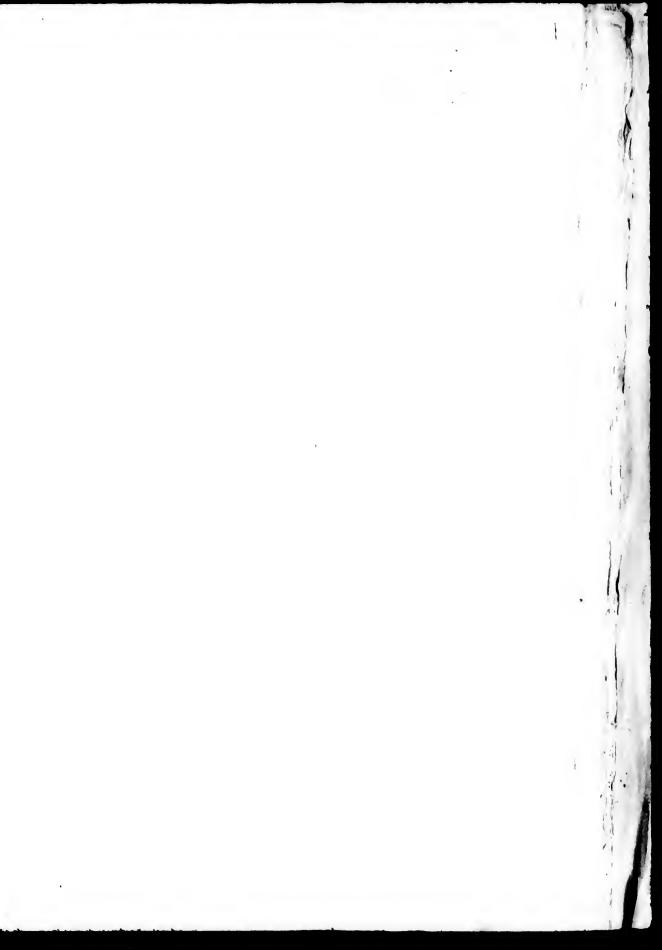


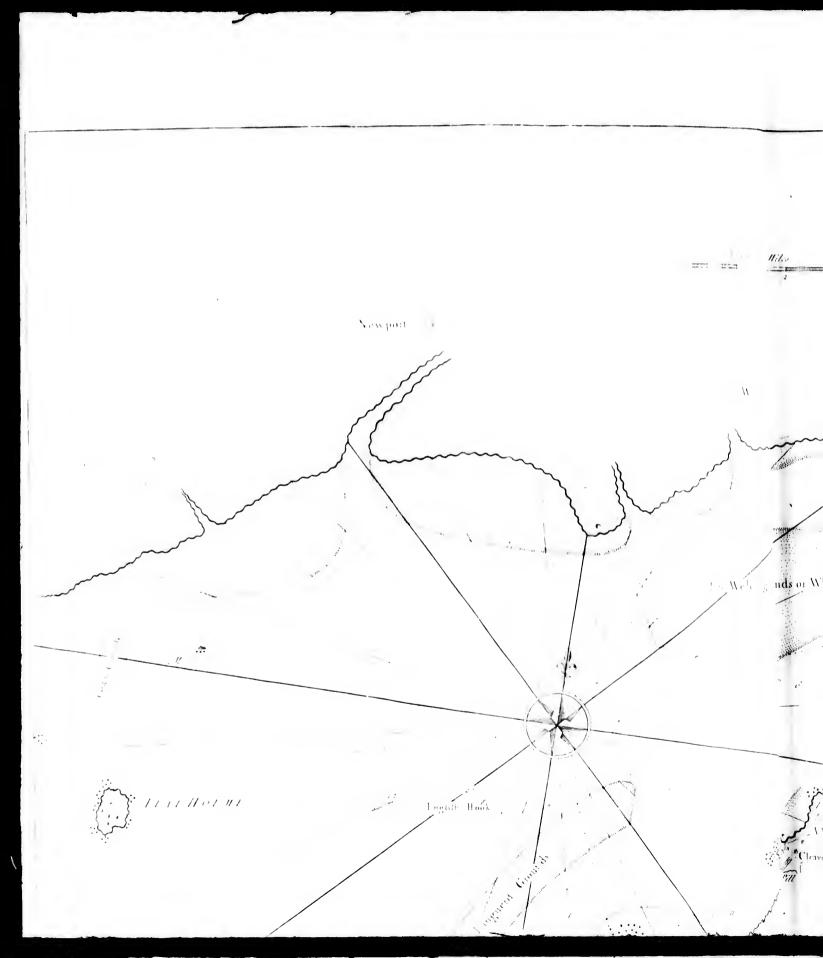


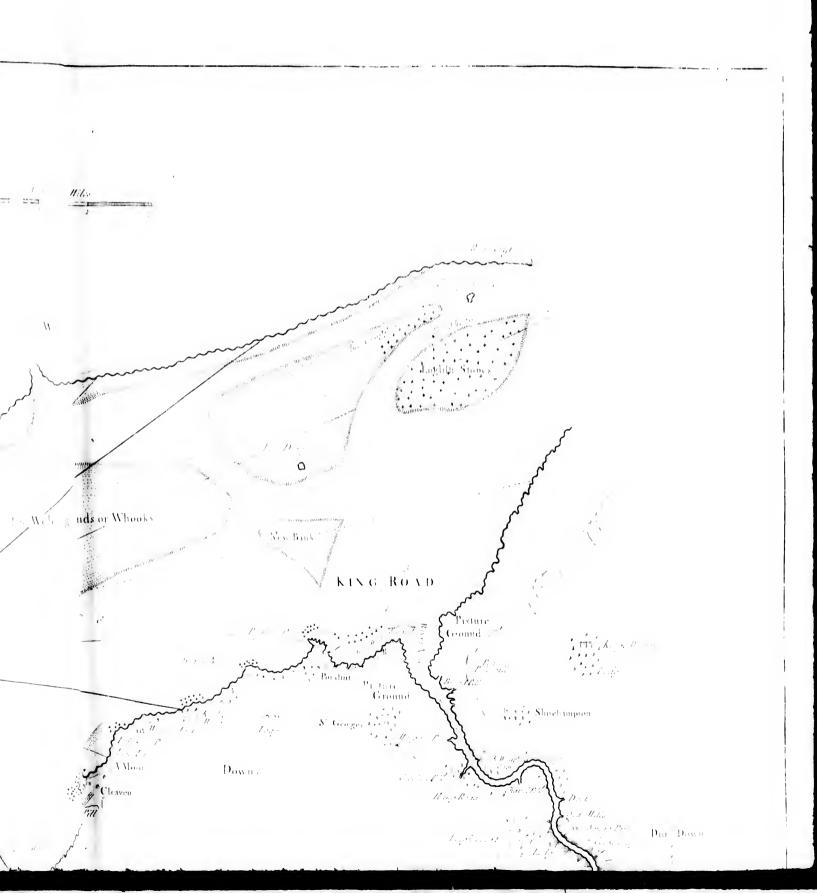


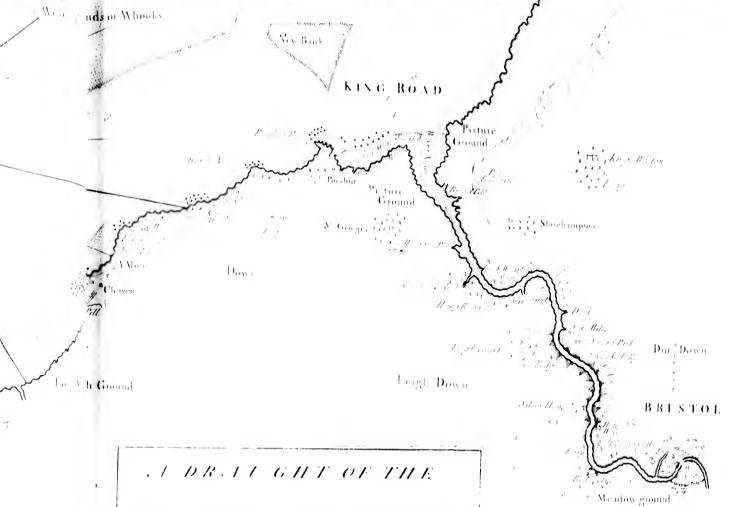










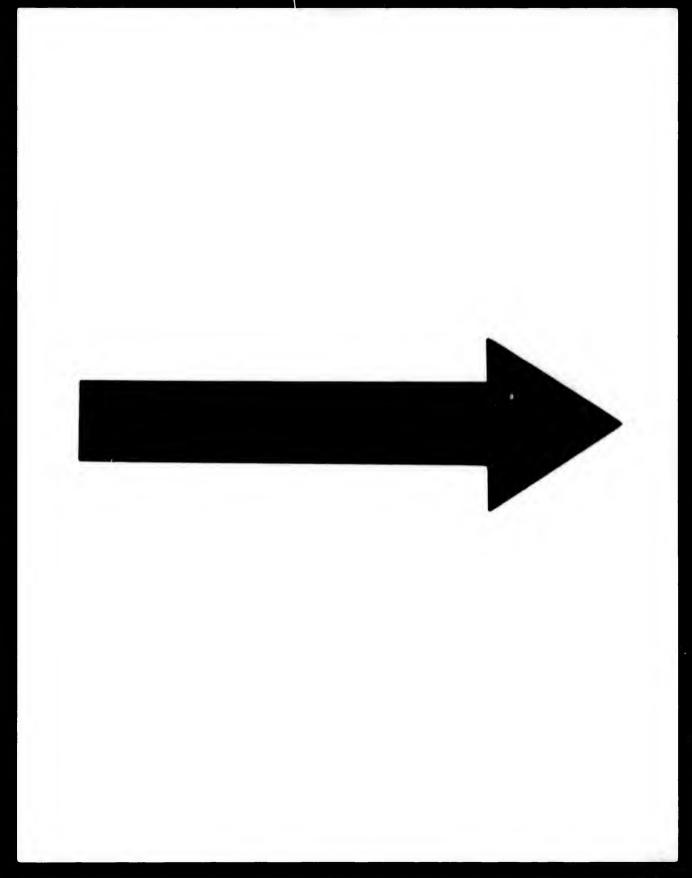


BRISTOL CHANNEL

TROWN THE HOLMES

including the River Avon.

Taken from Capt Mollidays Survey of the saw Rear kept in relicionalis Hall at BRISTOL.



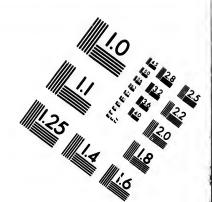
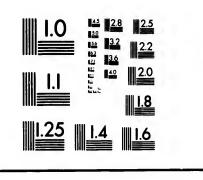


IMAGE EVALUATION TEST TARGET (MT-3)



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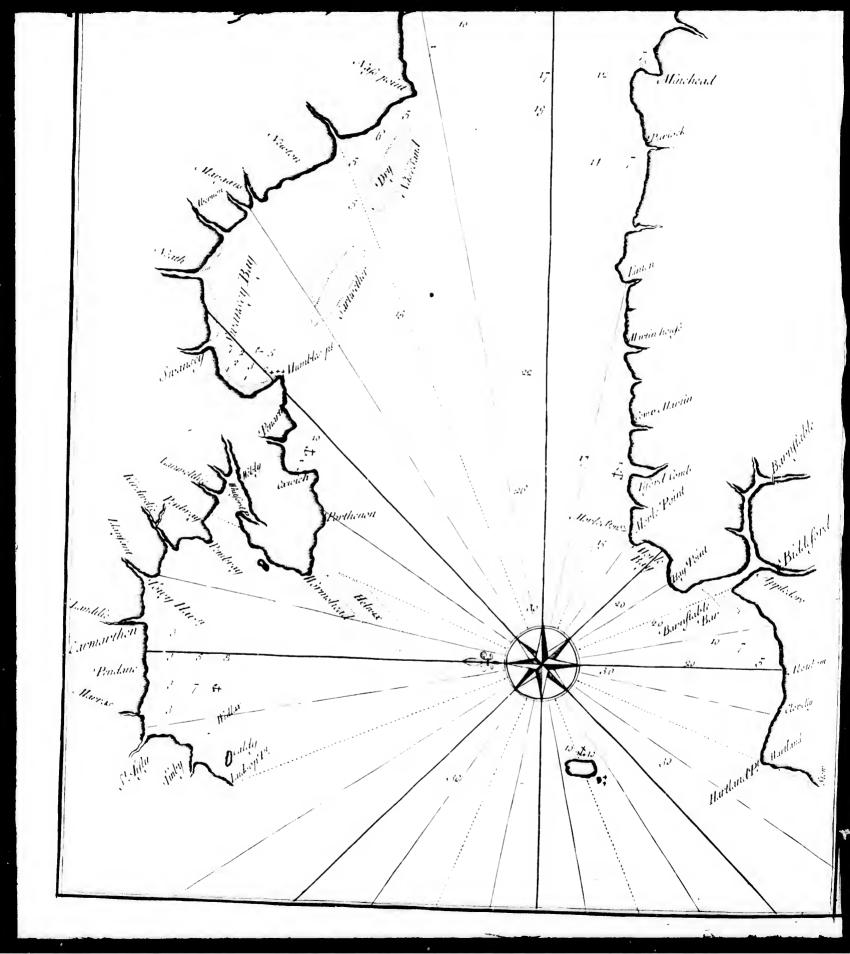




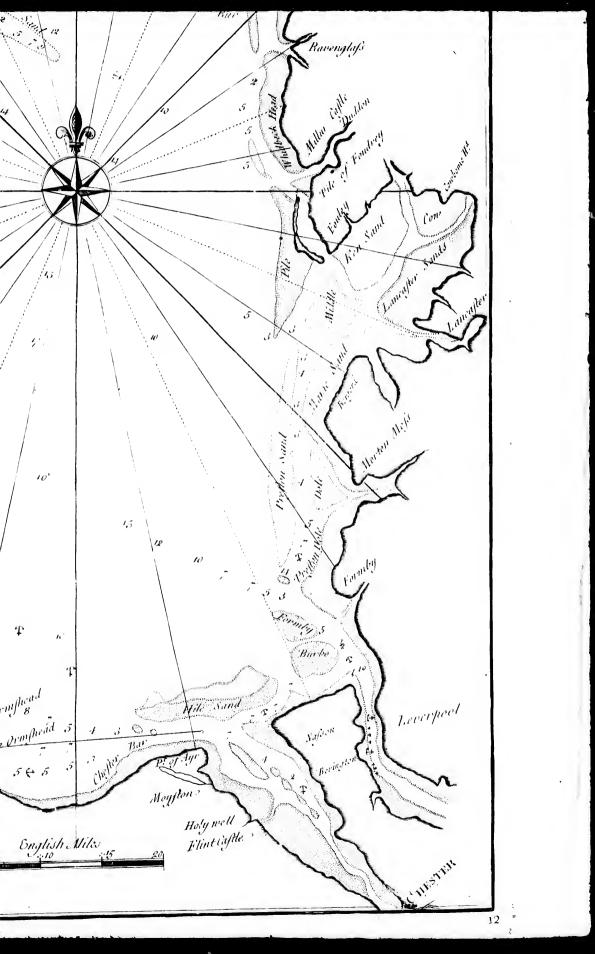
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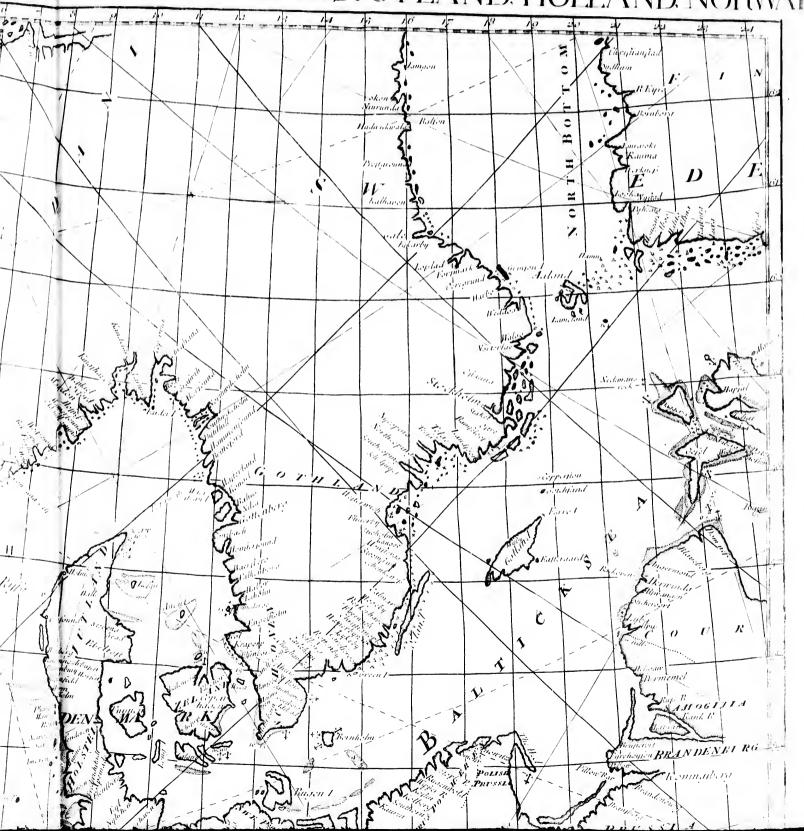




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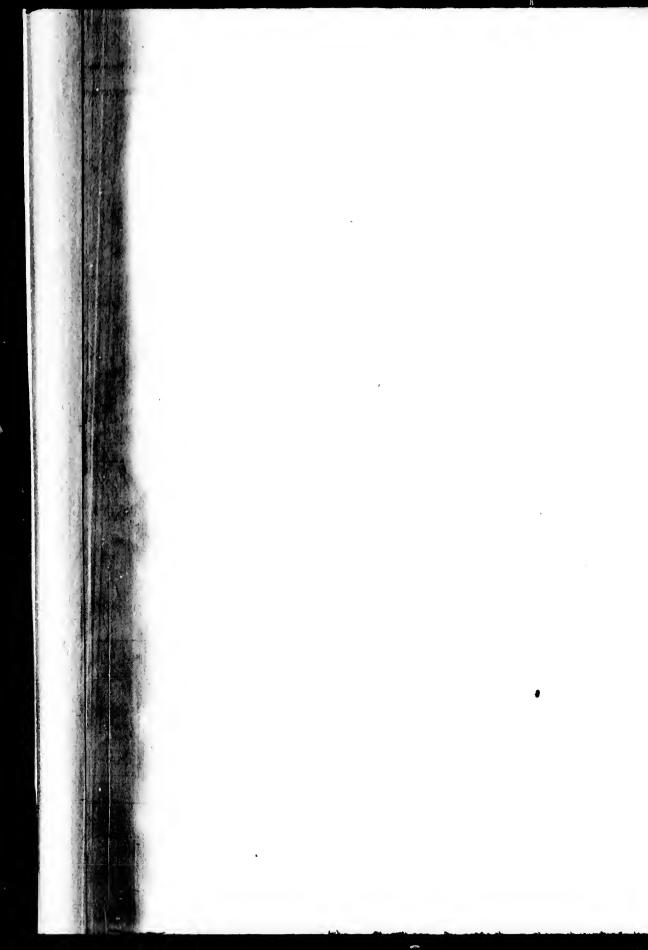


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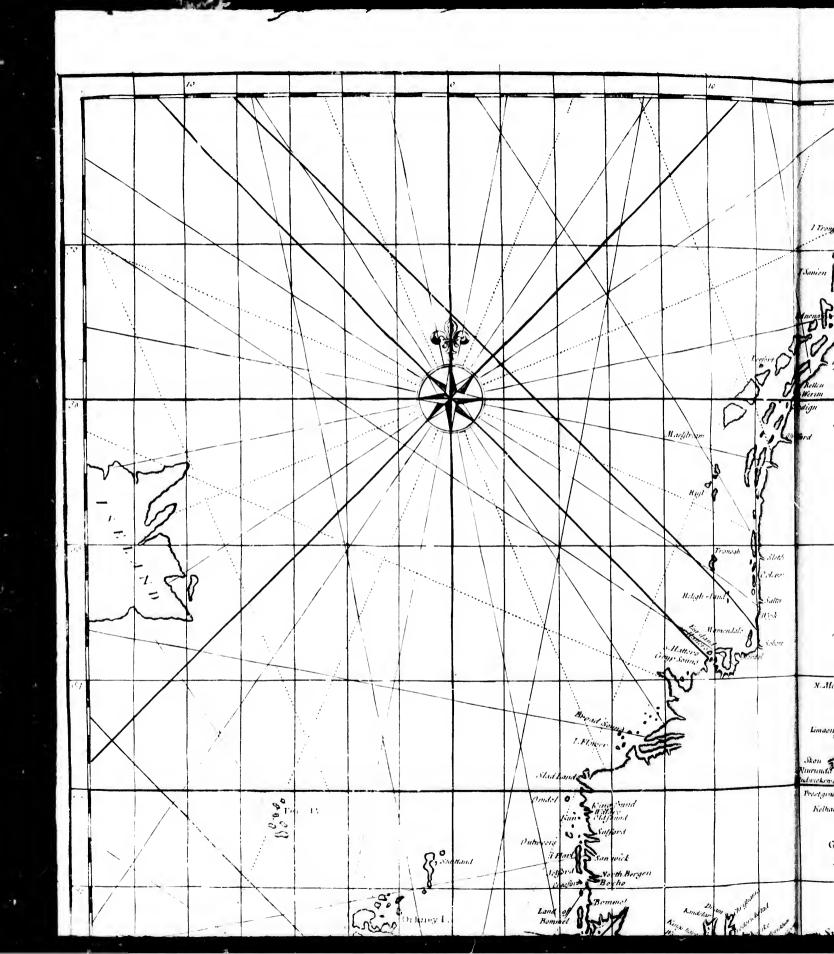


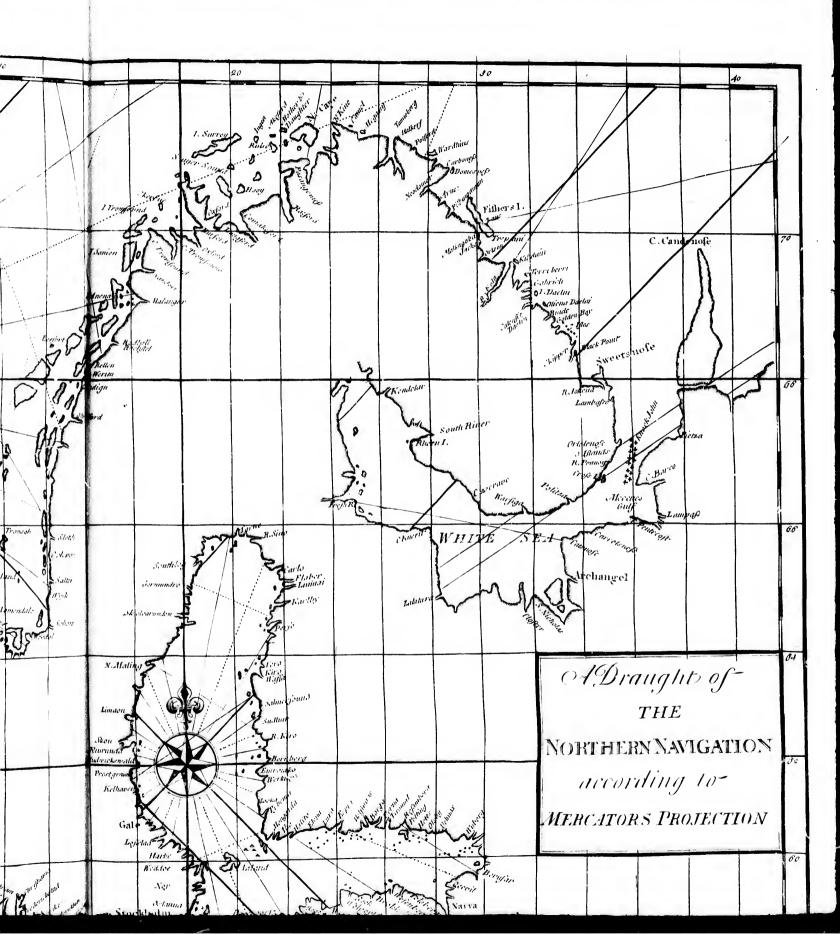


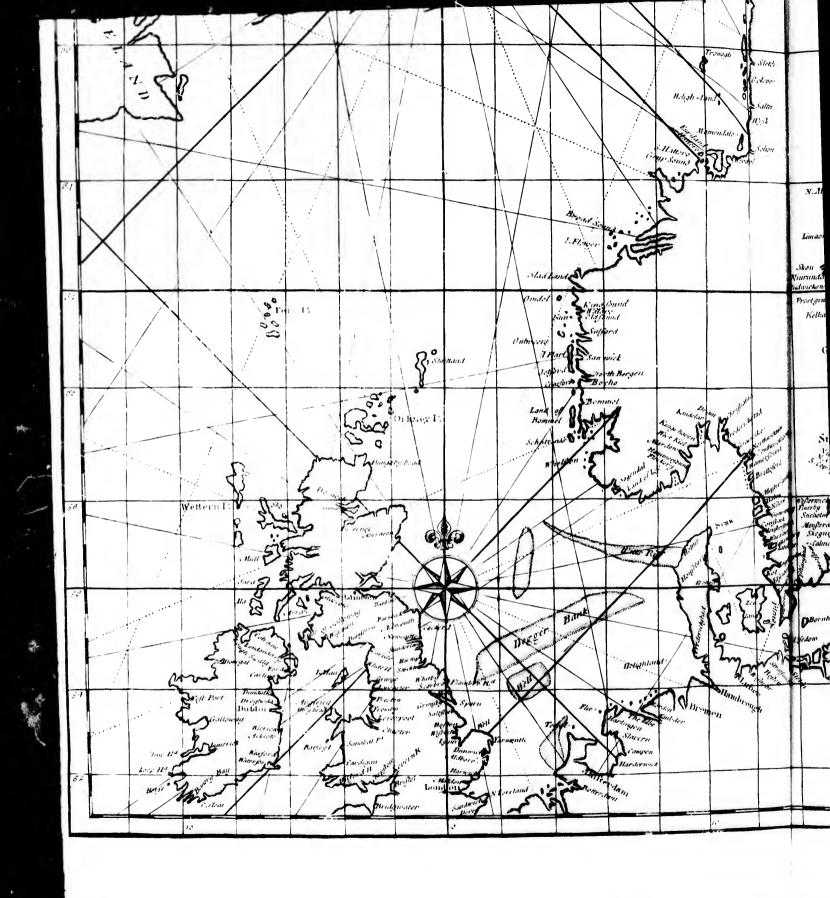


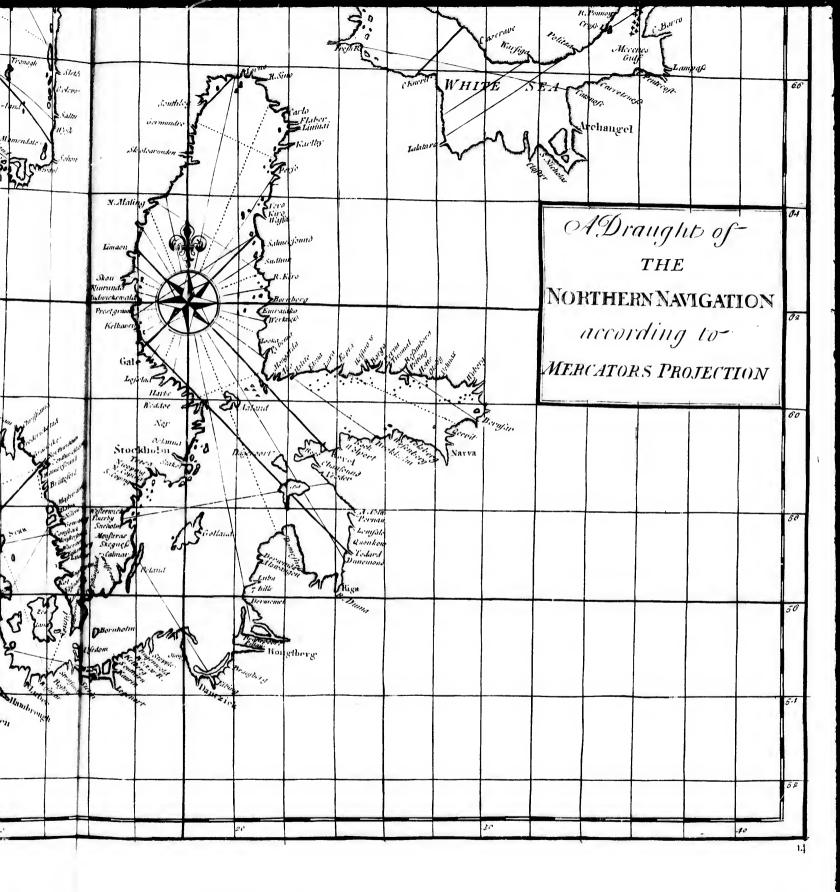








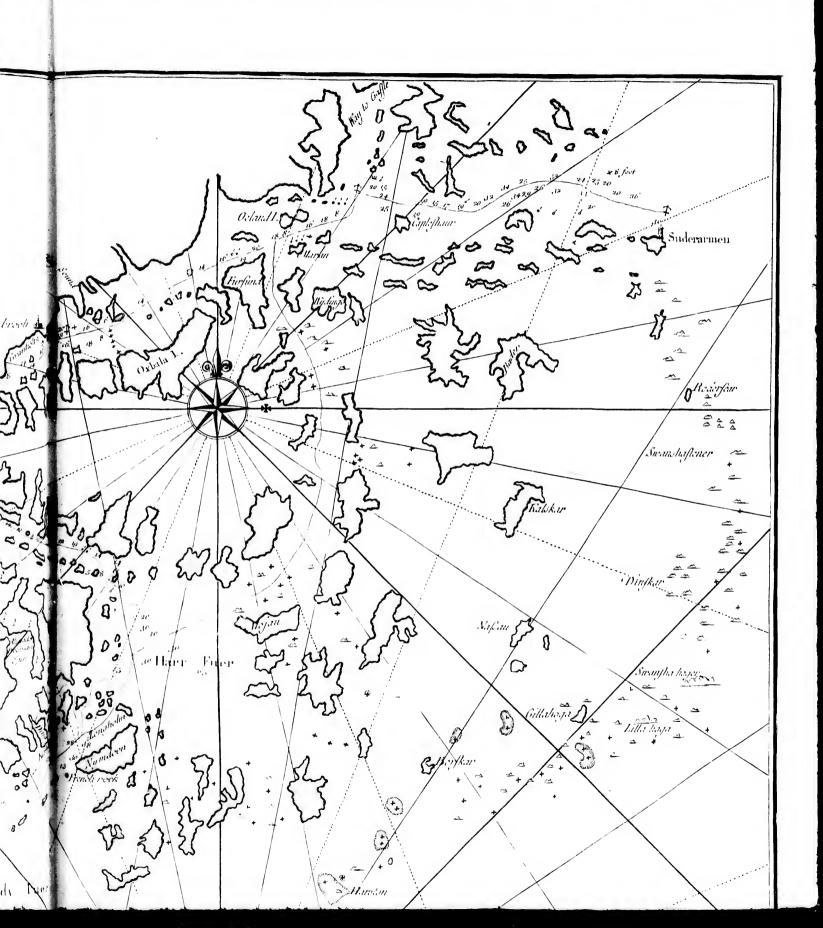


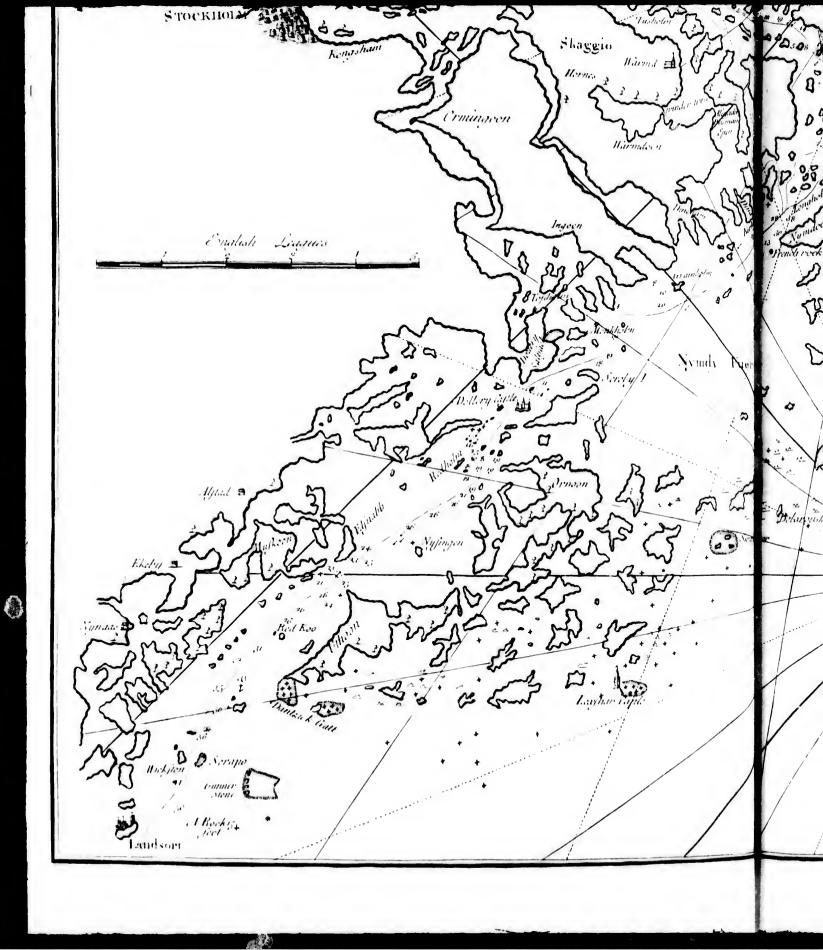


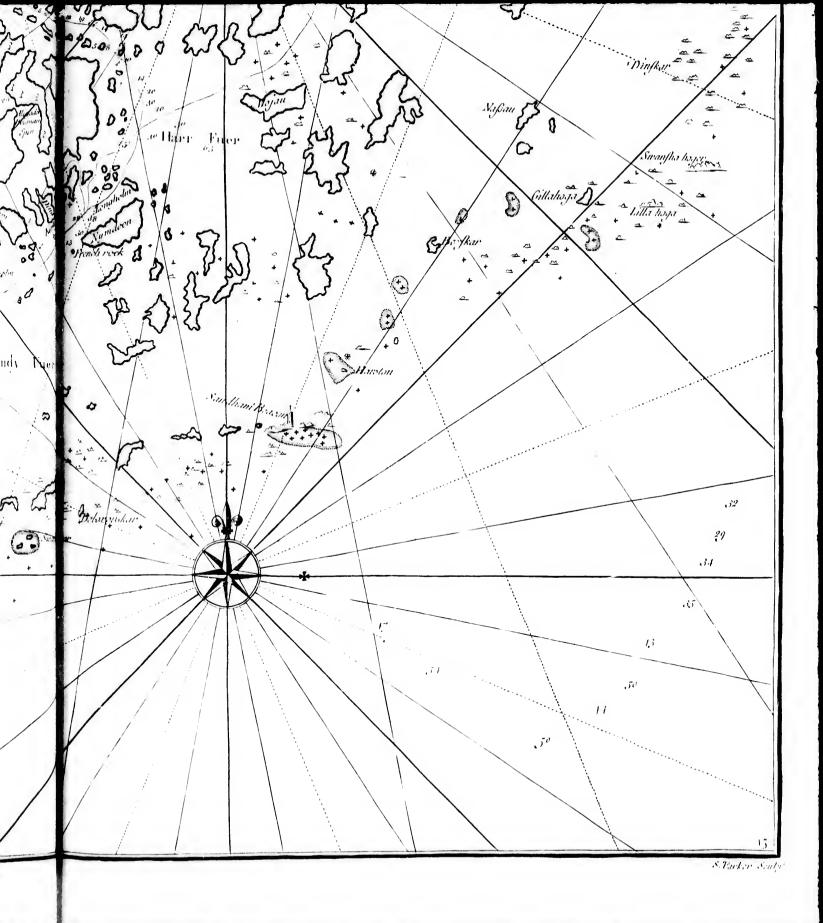




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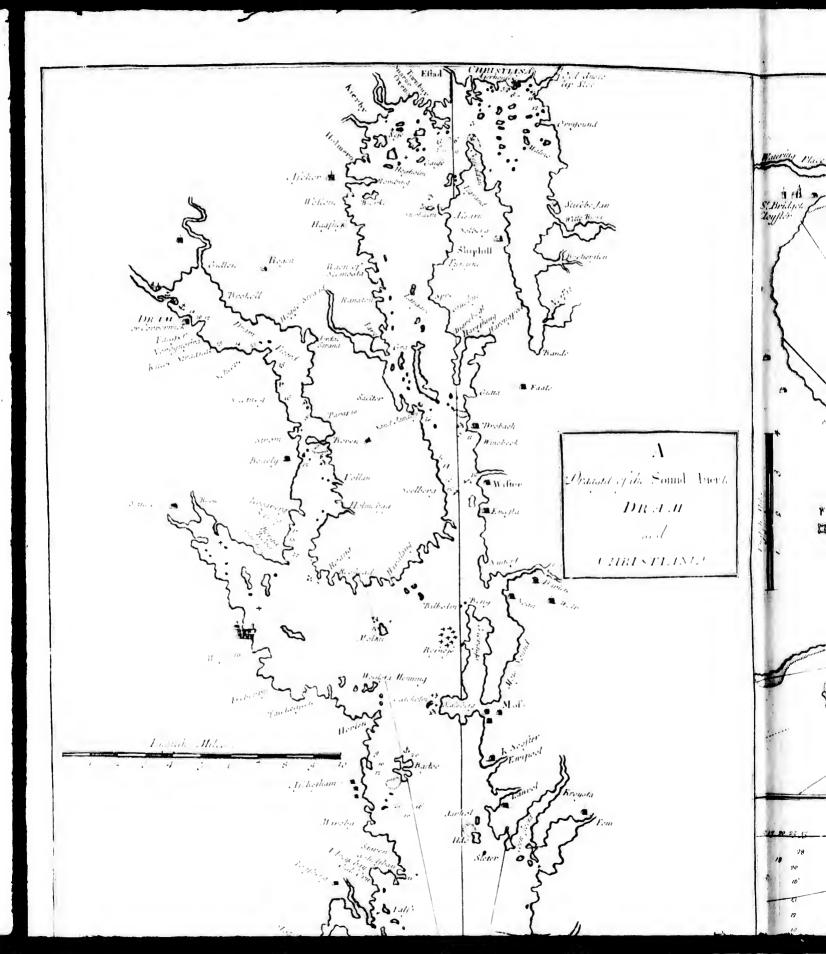


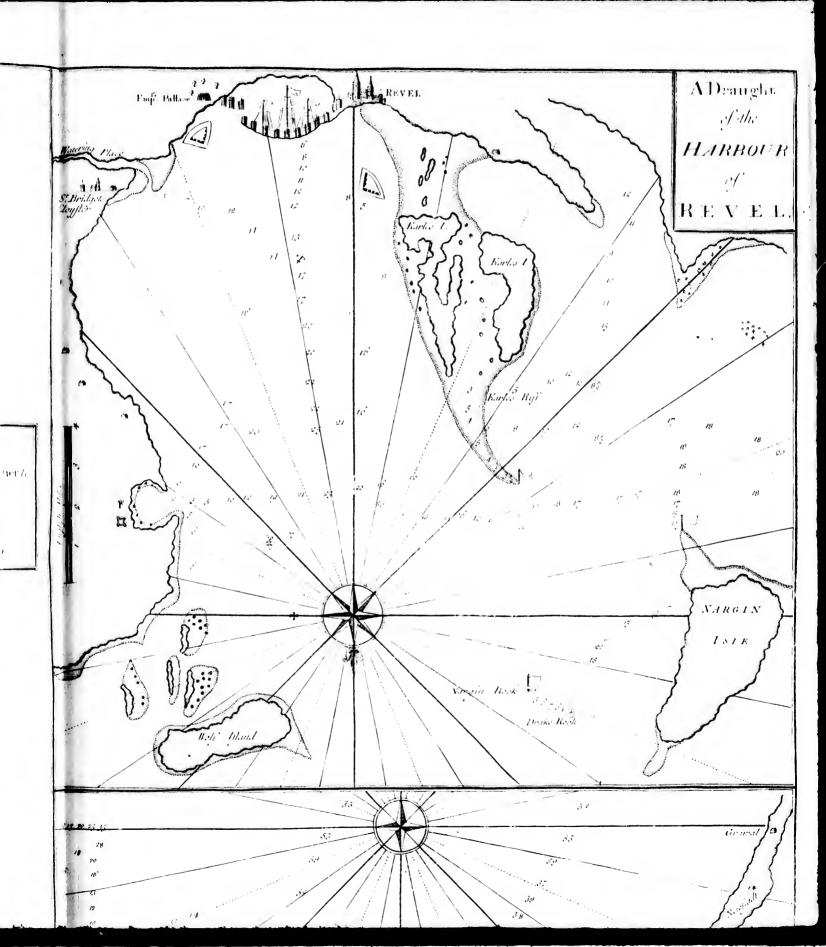


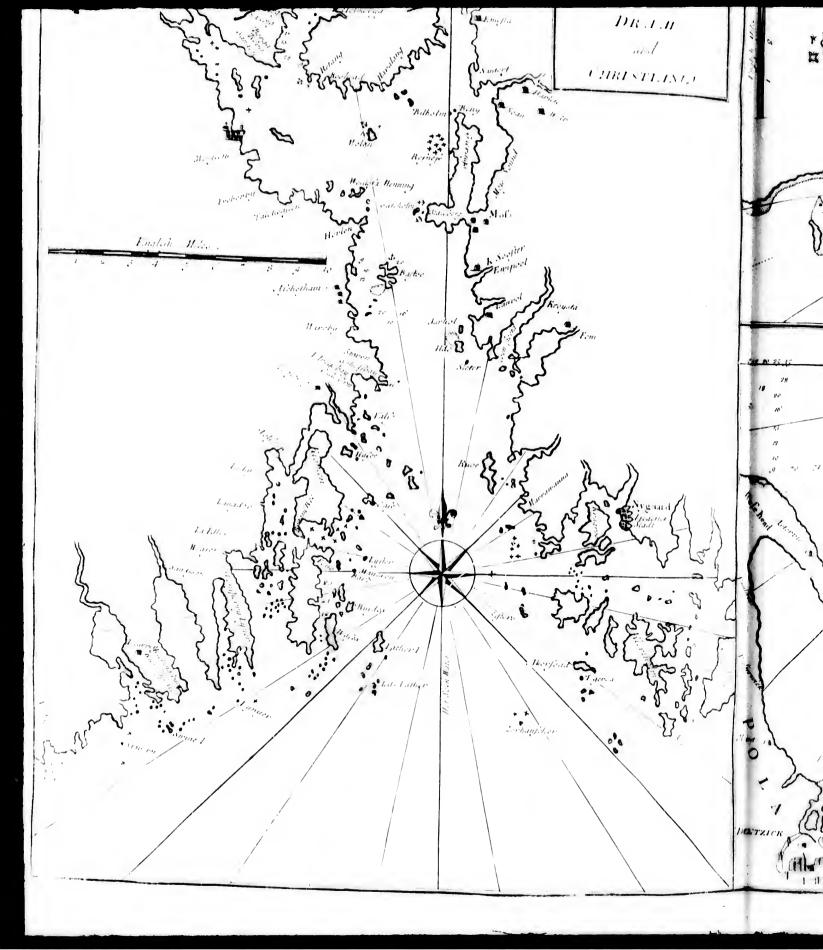


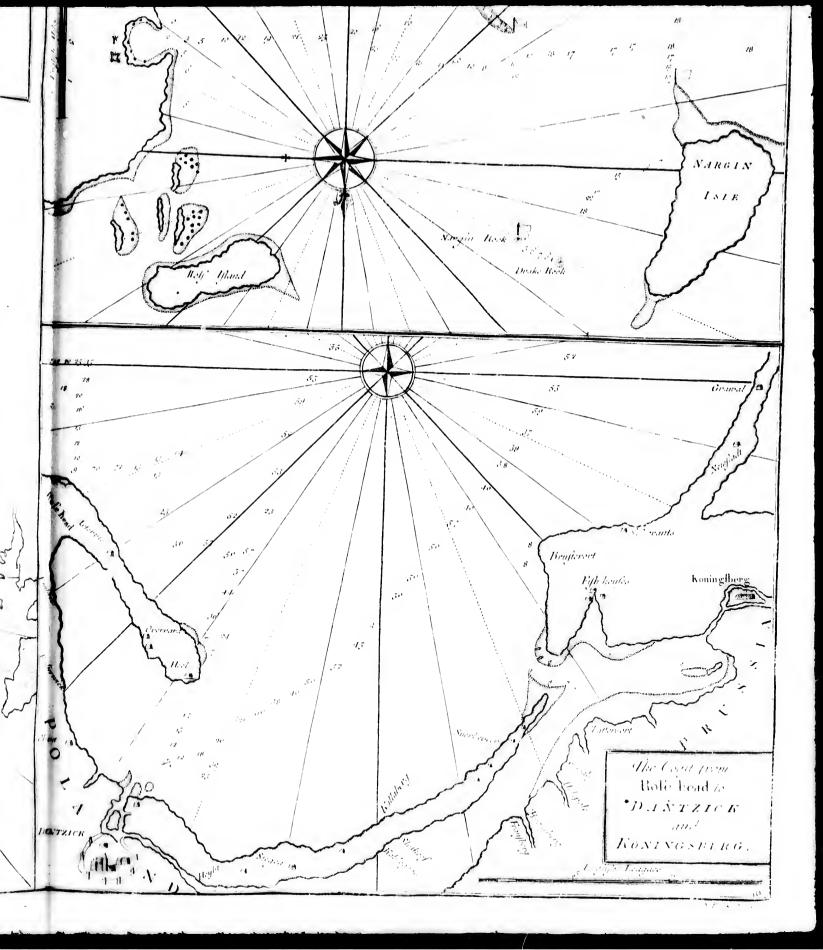


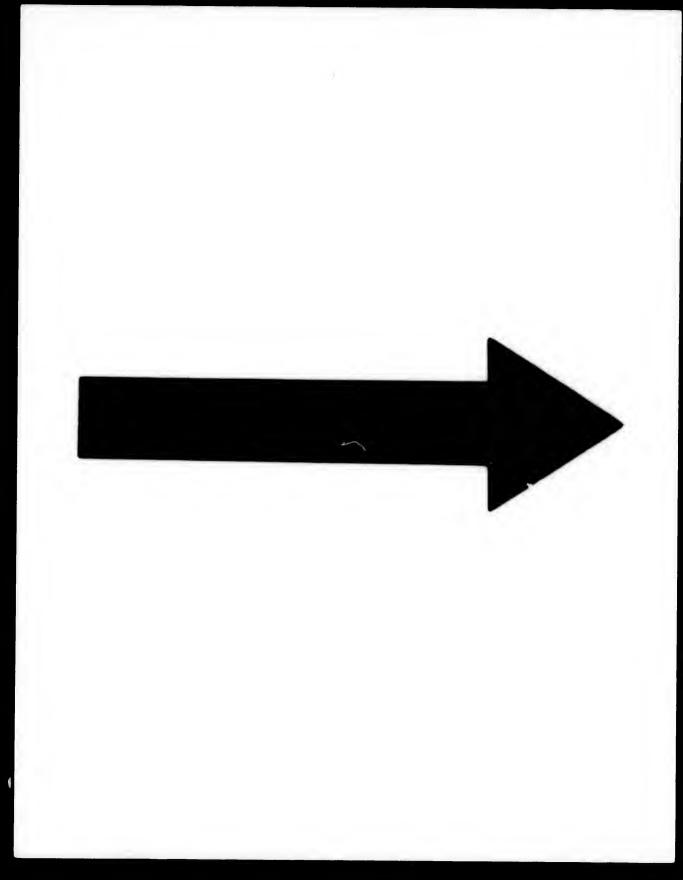












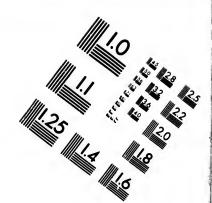
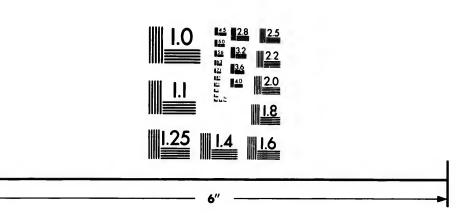


IMAGE EVALUATION TEST TARGET (MT-3)

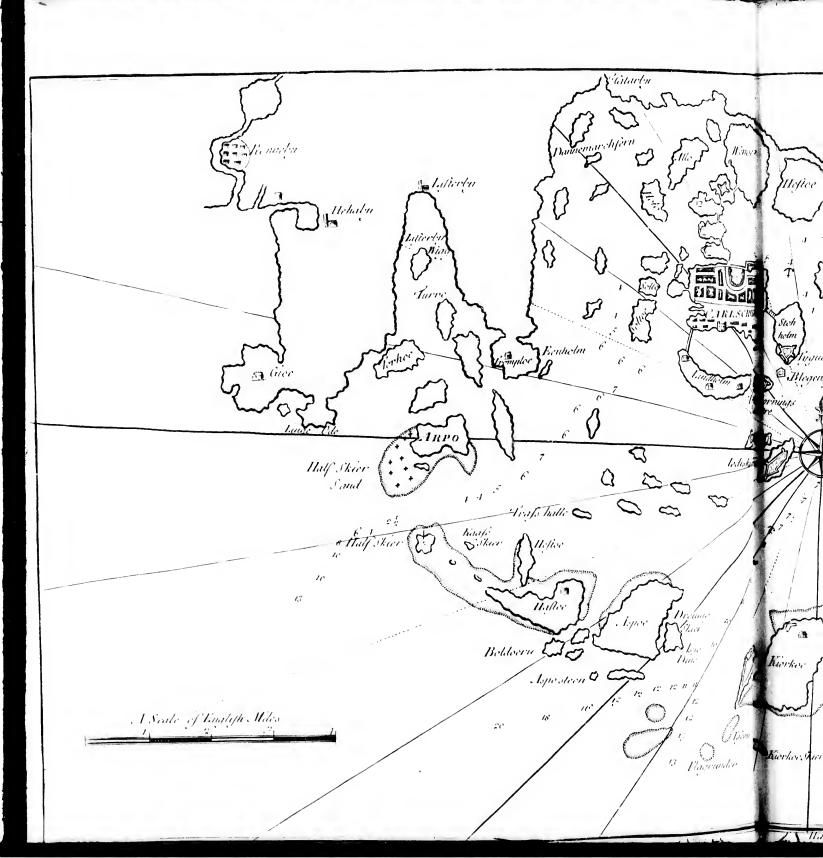


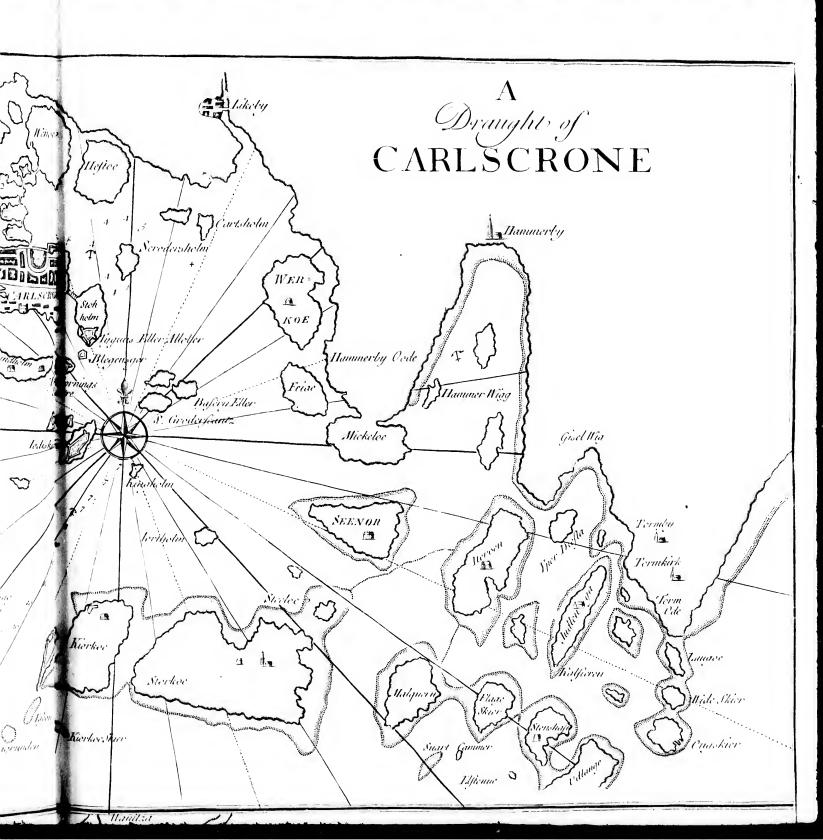
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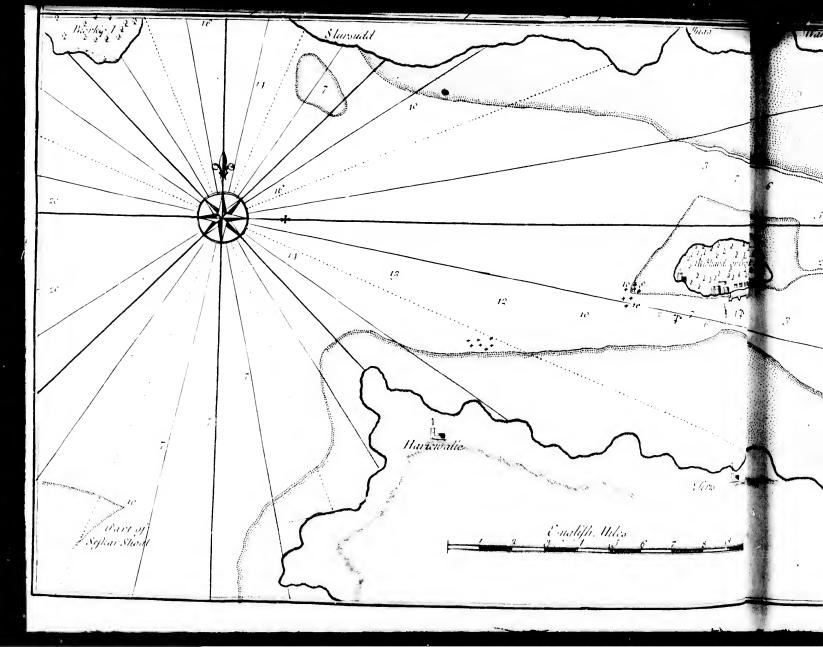
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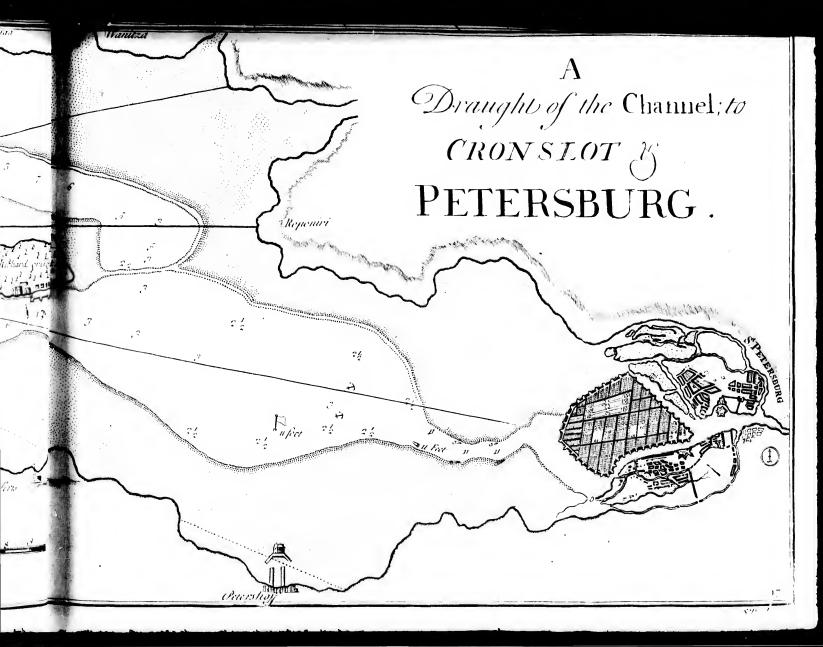






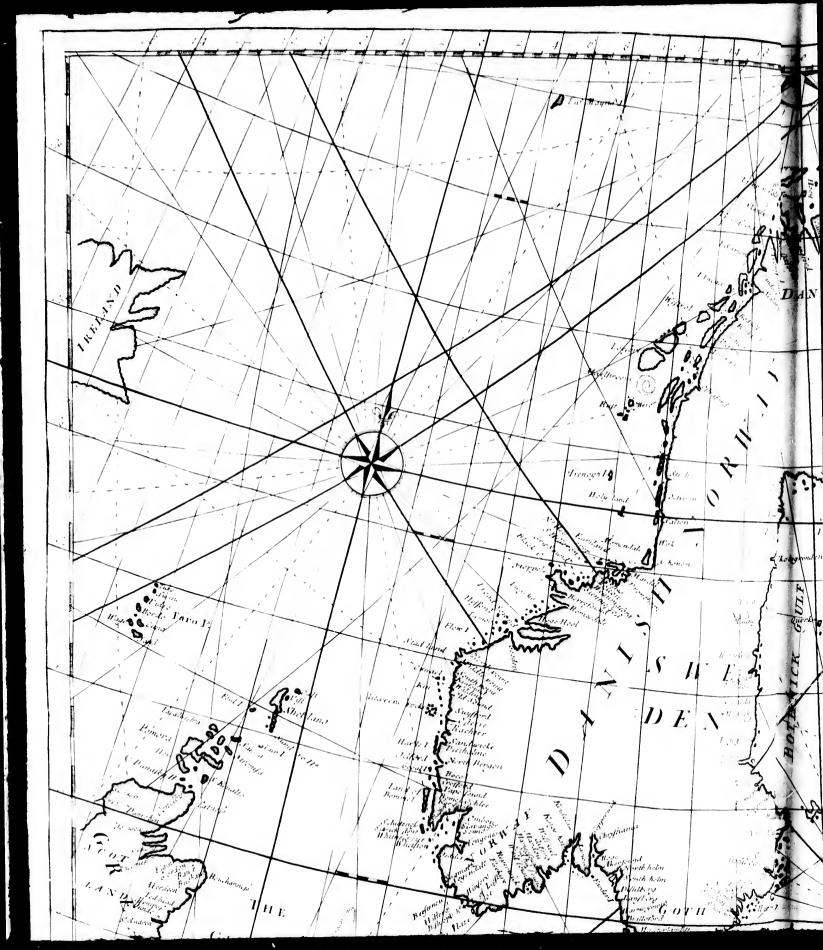


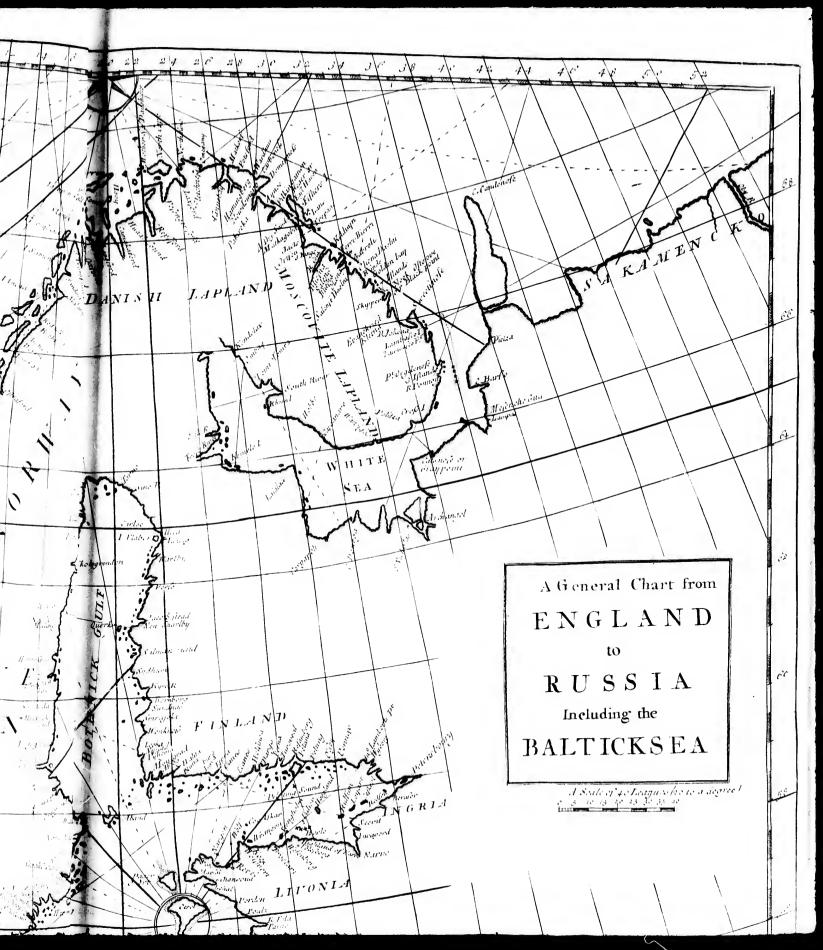




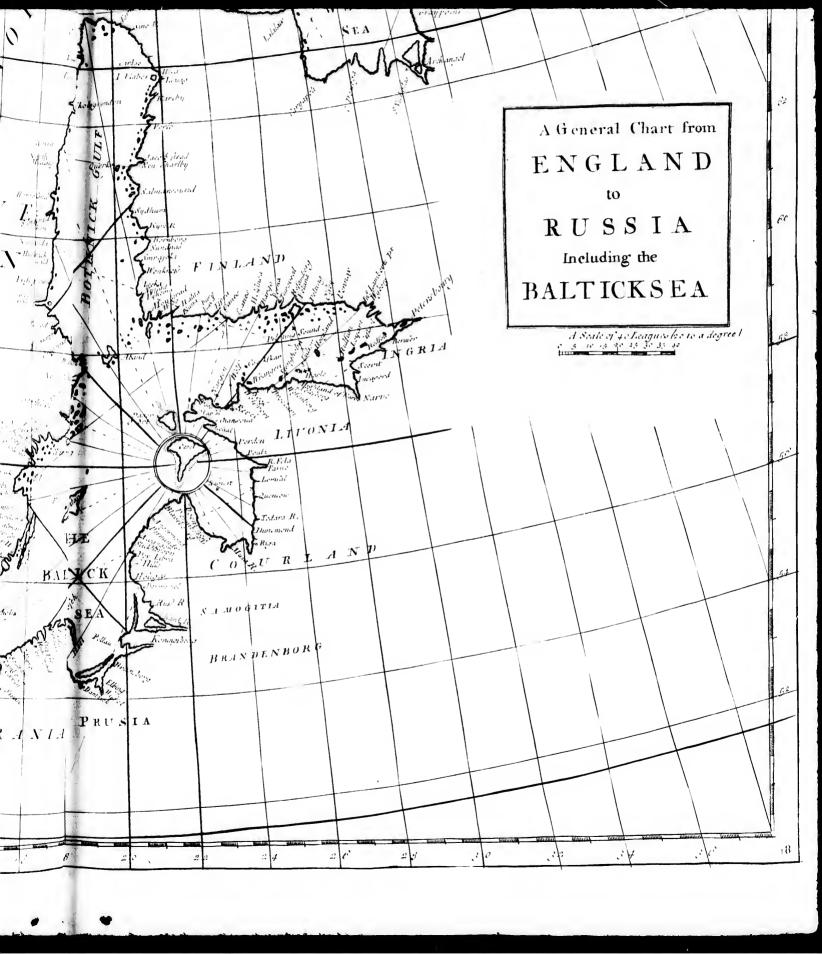






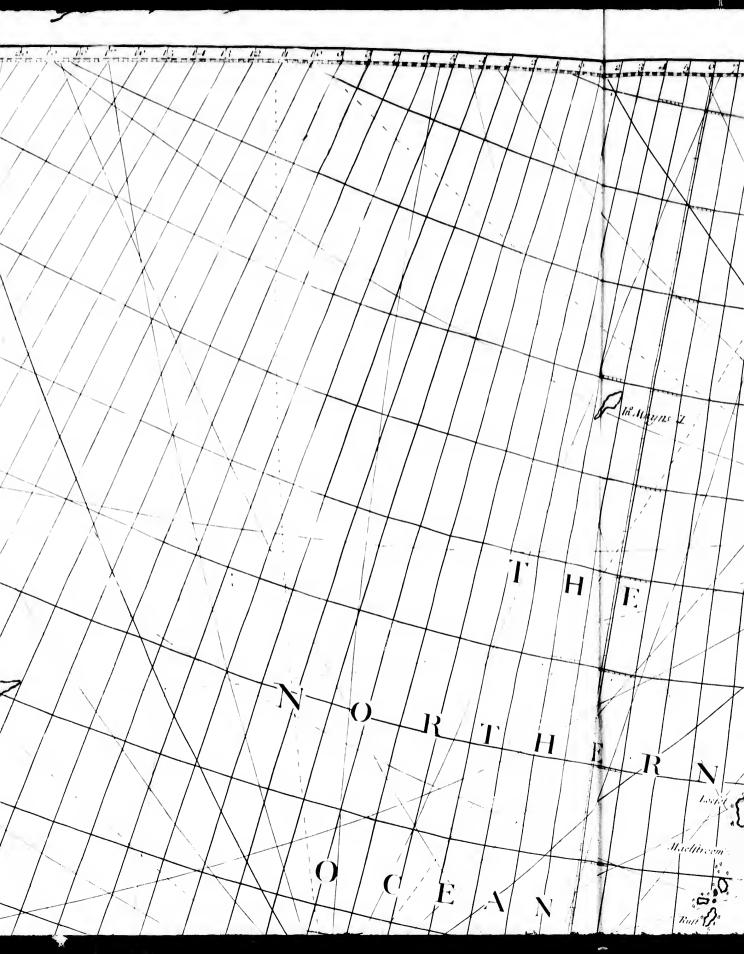


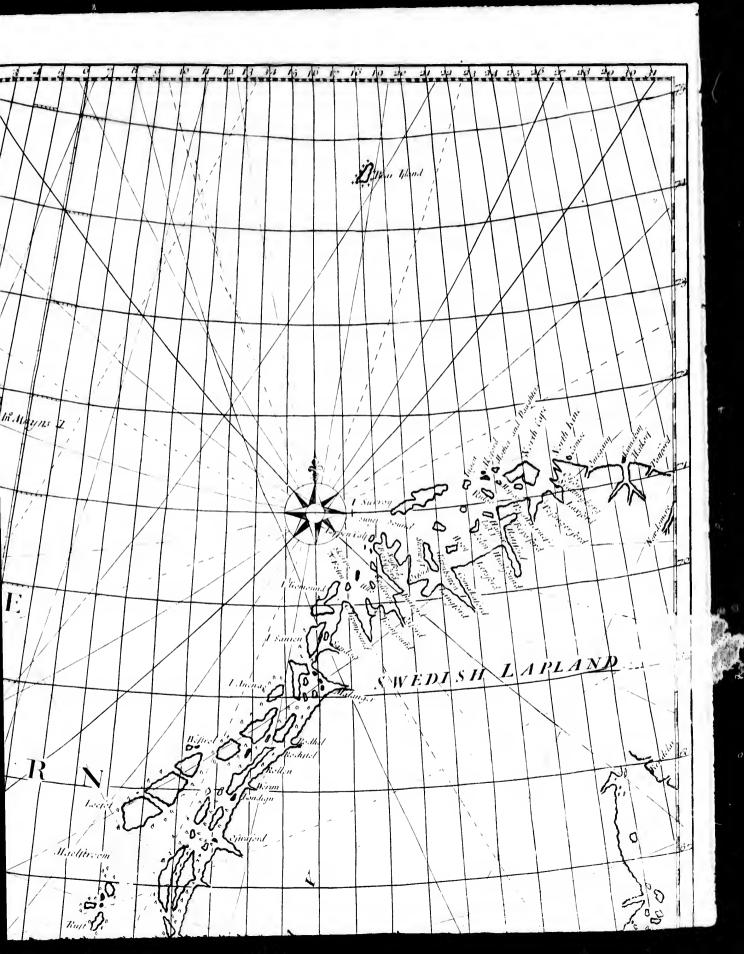


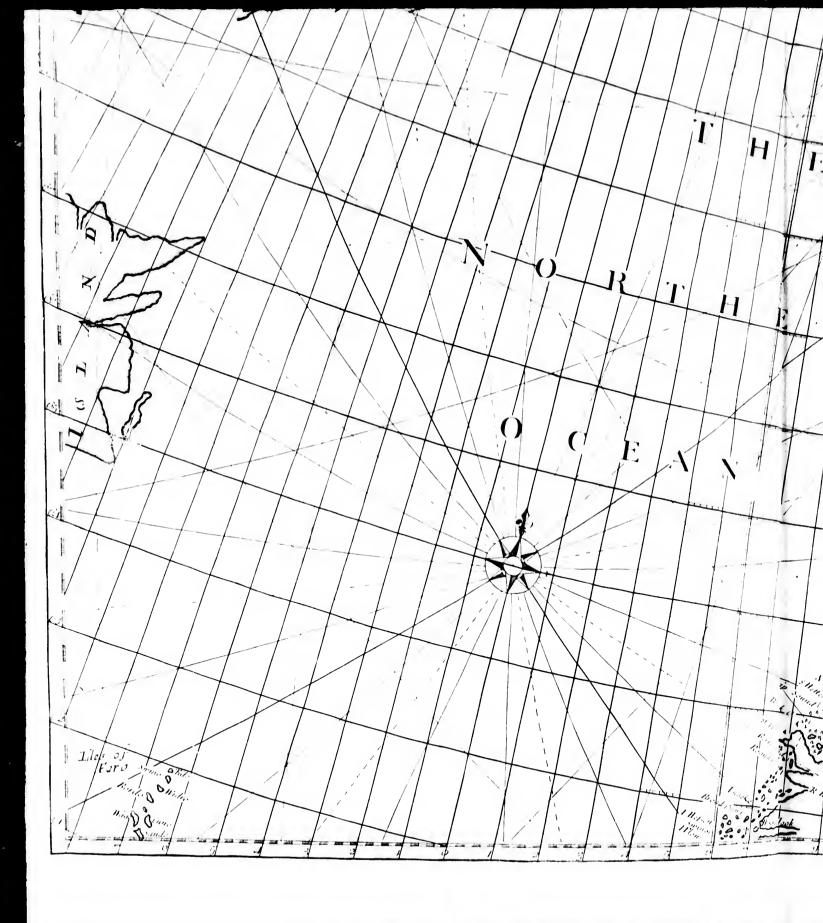


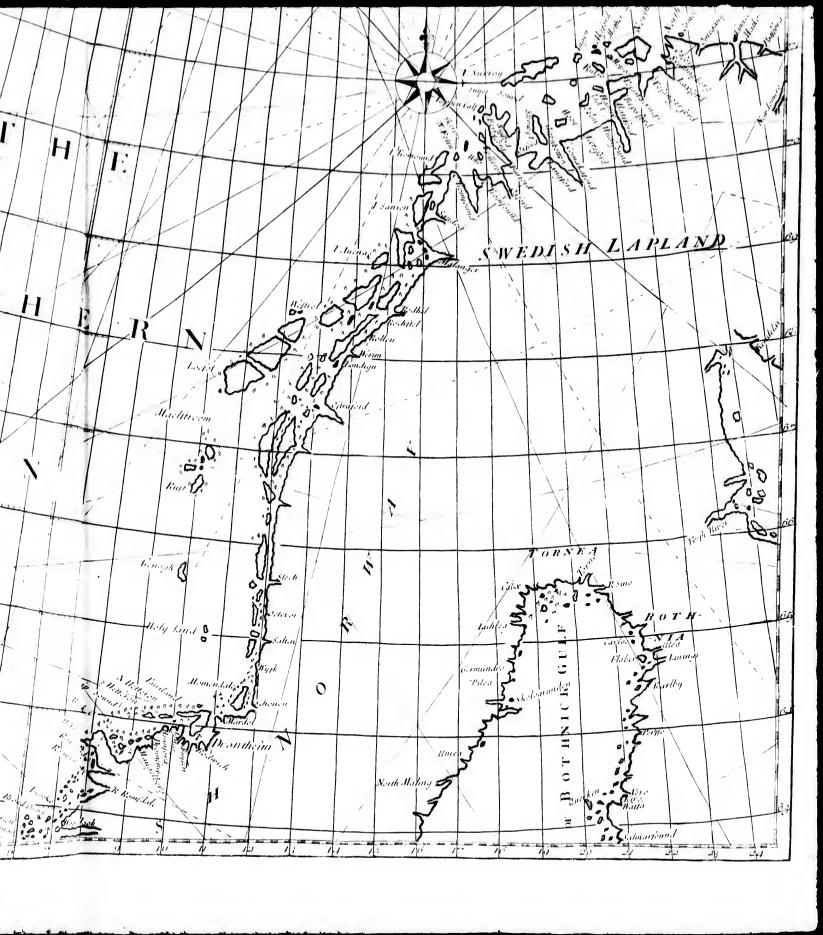








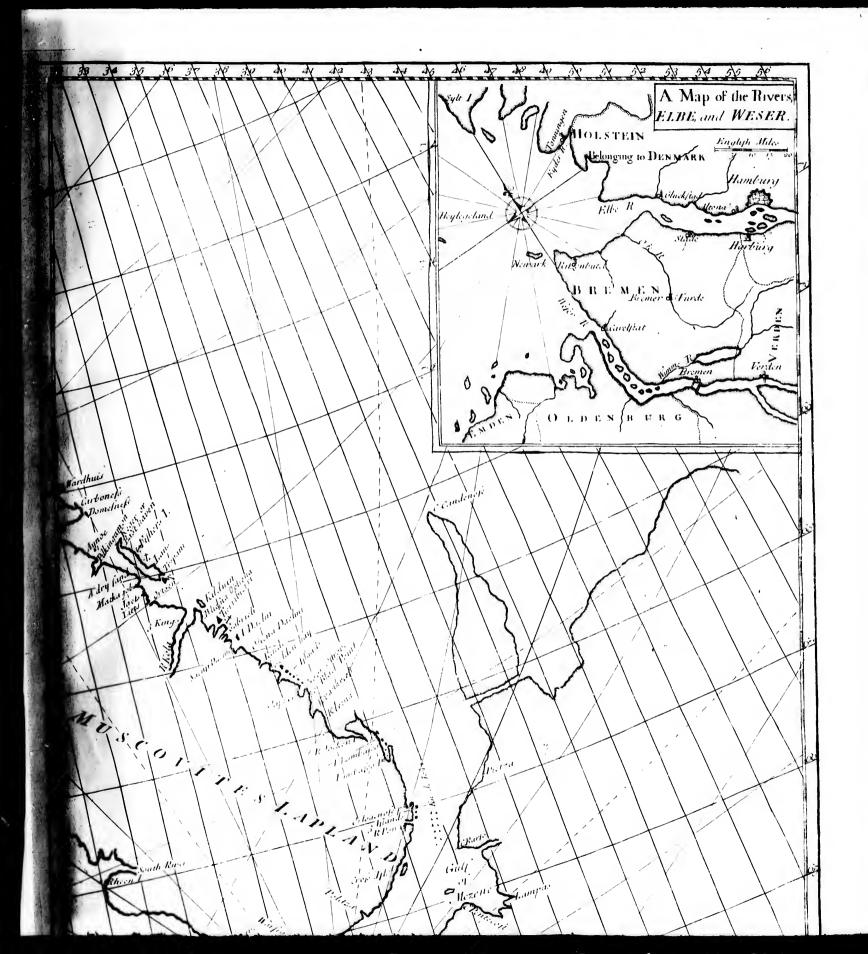


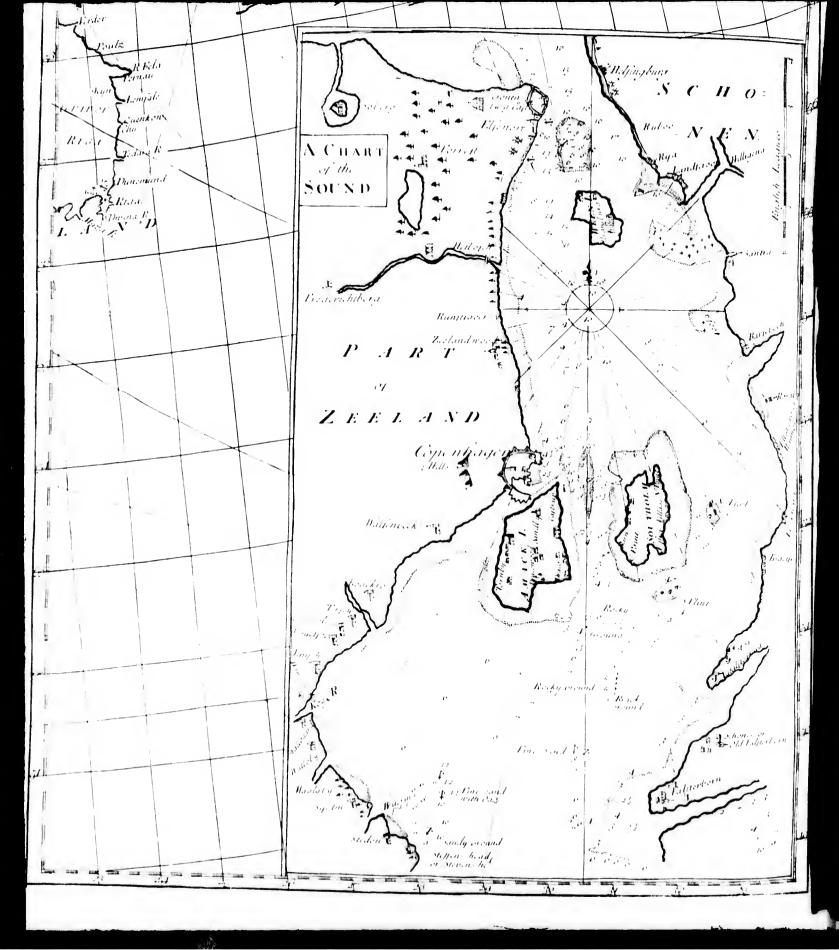


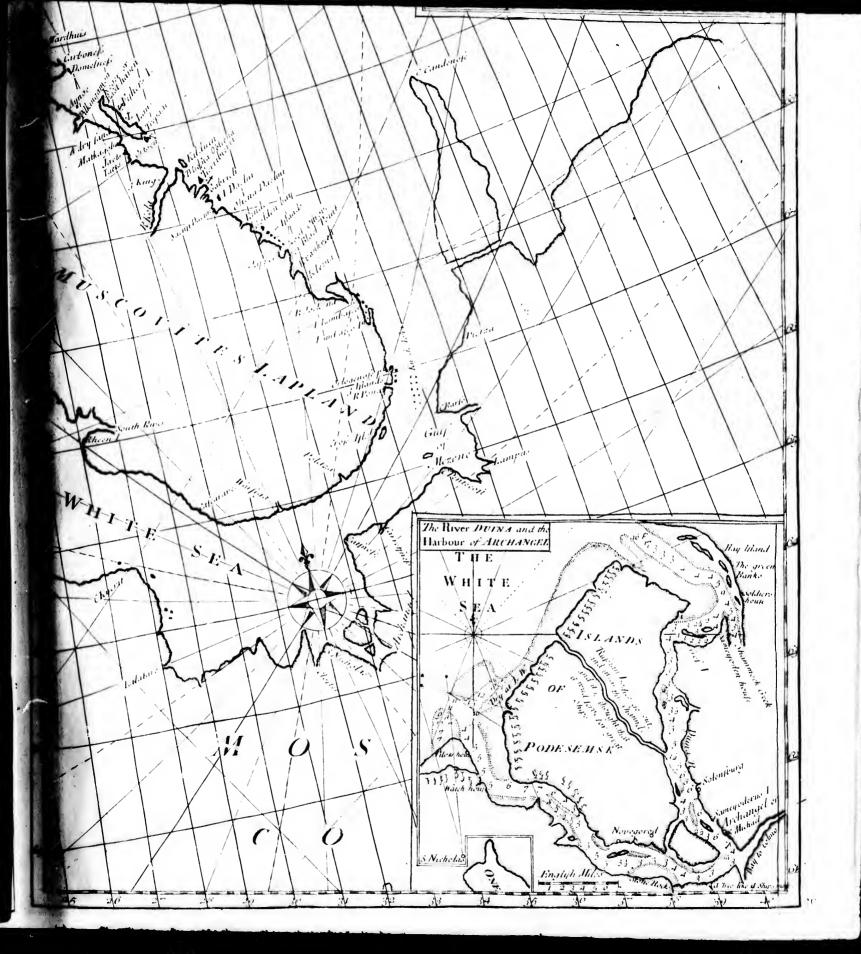




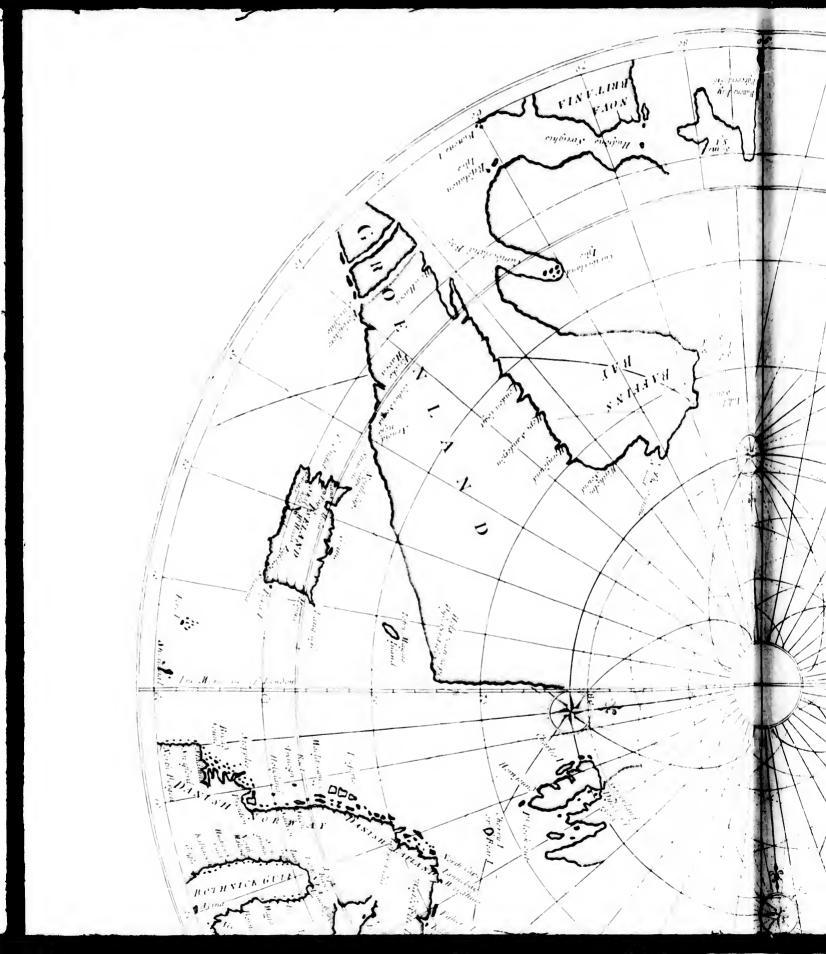


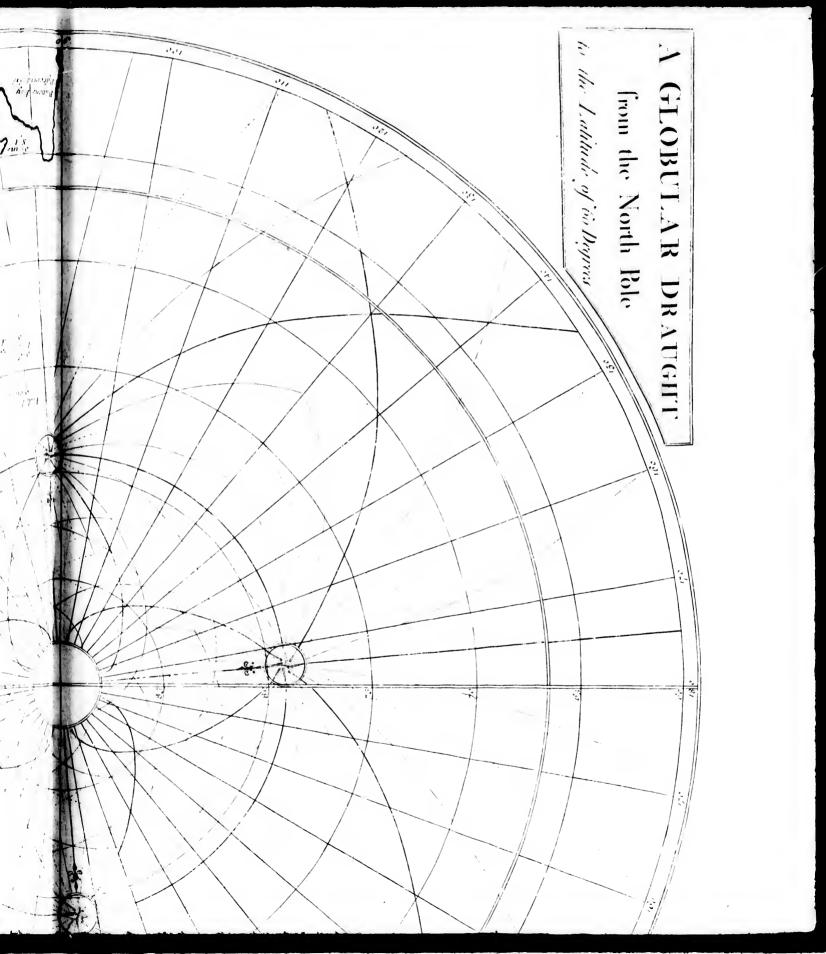


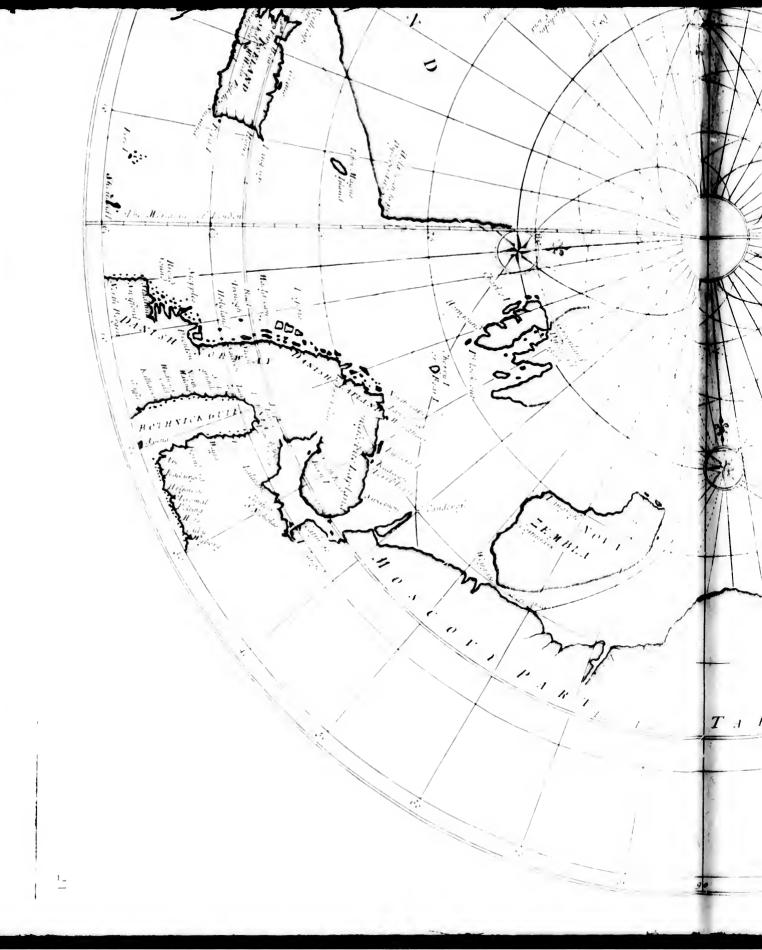


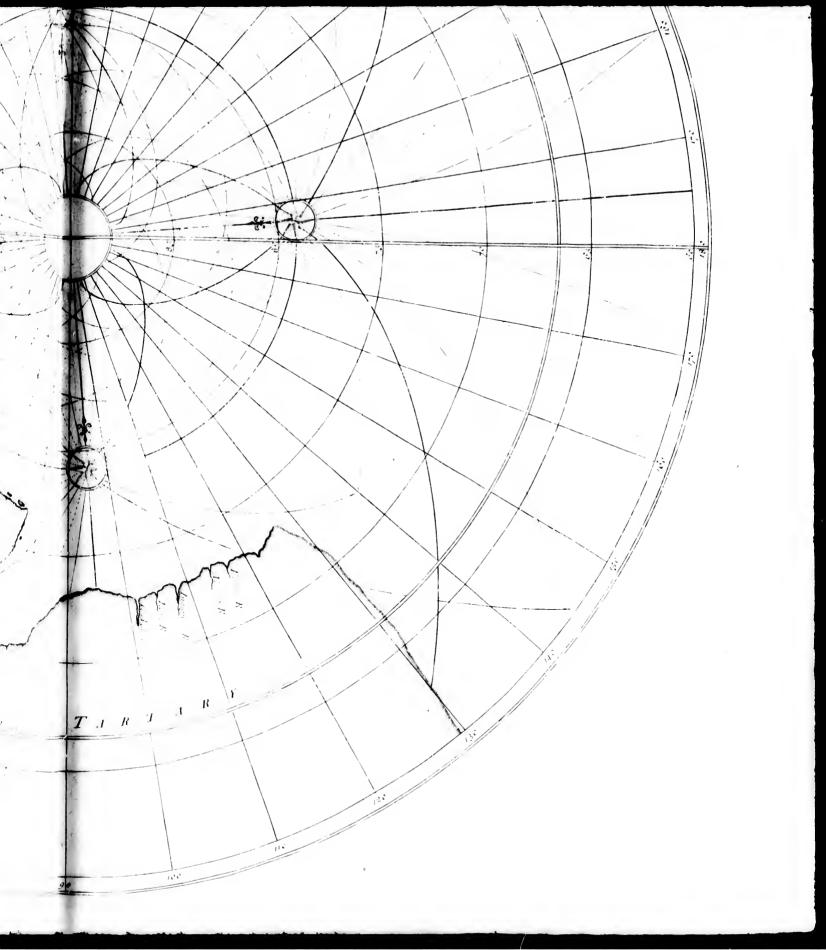


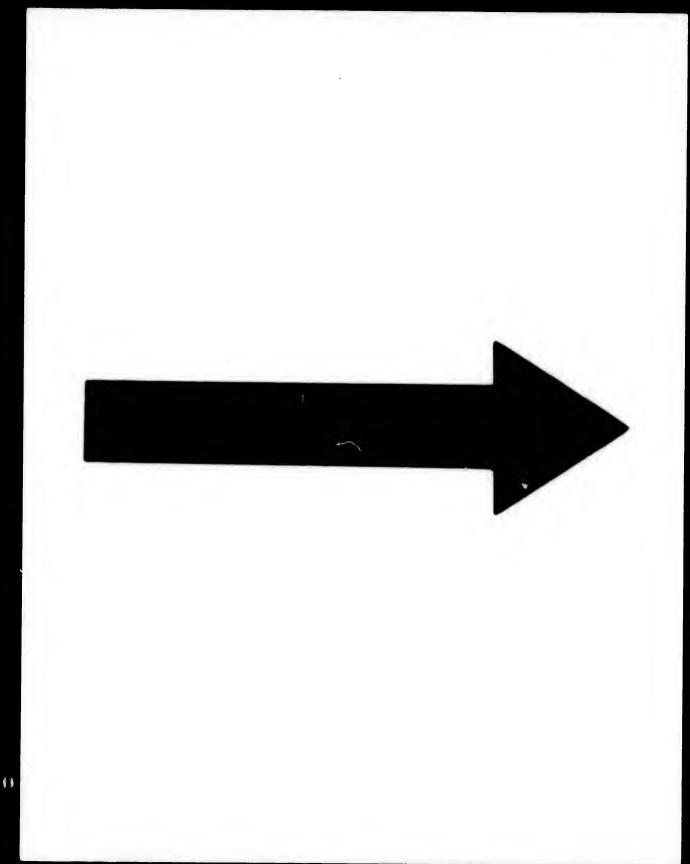












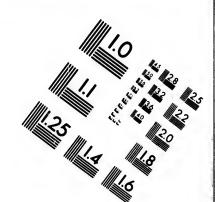
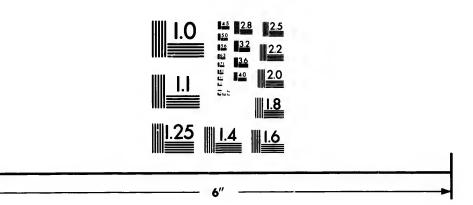


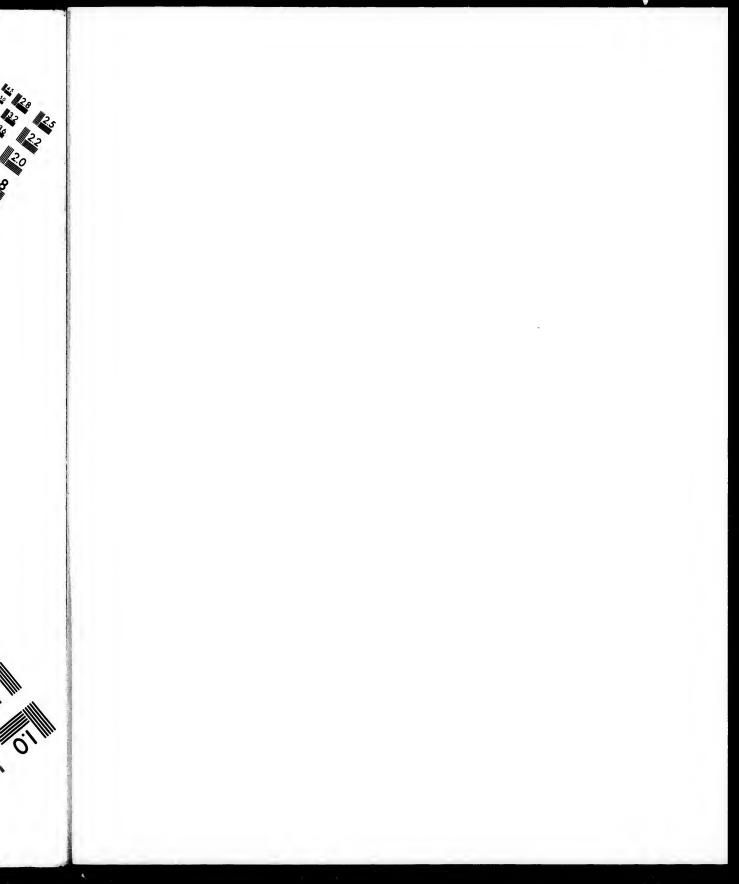
IMAGE EVALUATION TEST TARGET (MT-3)

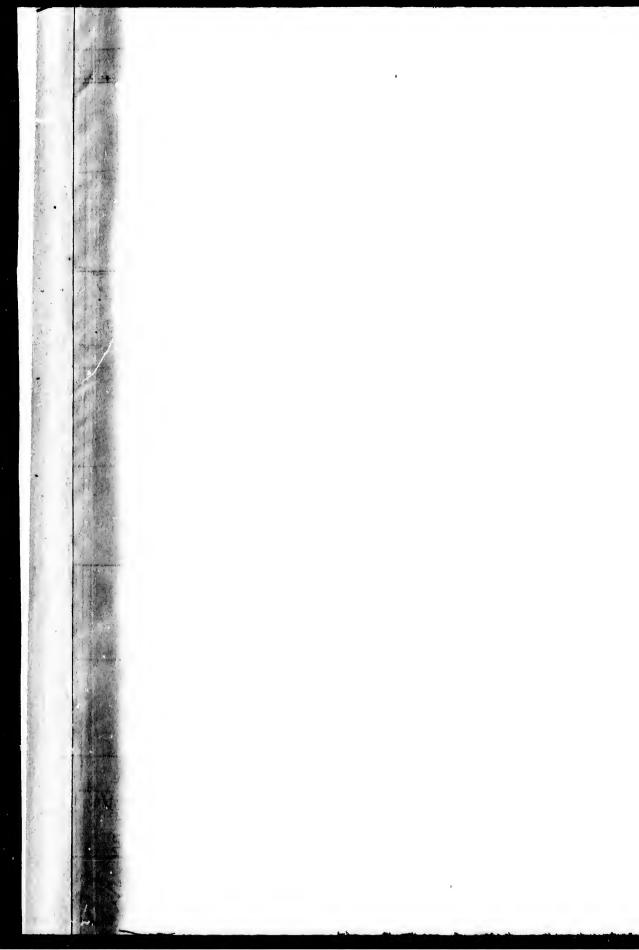


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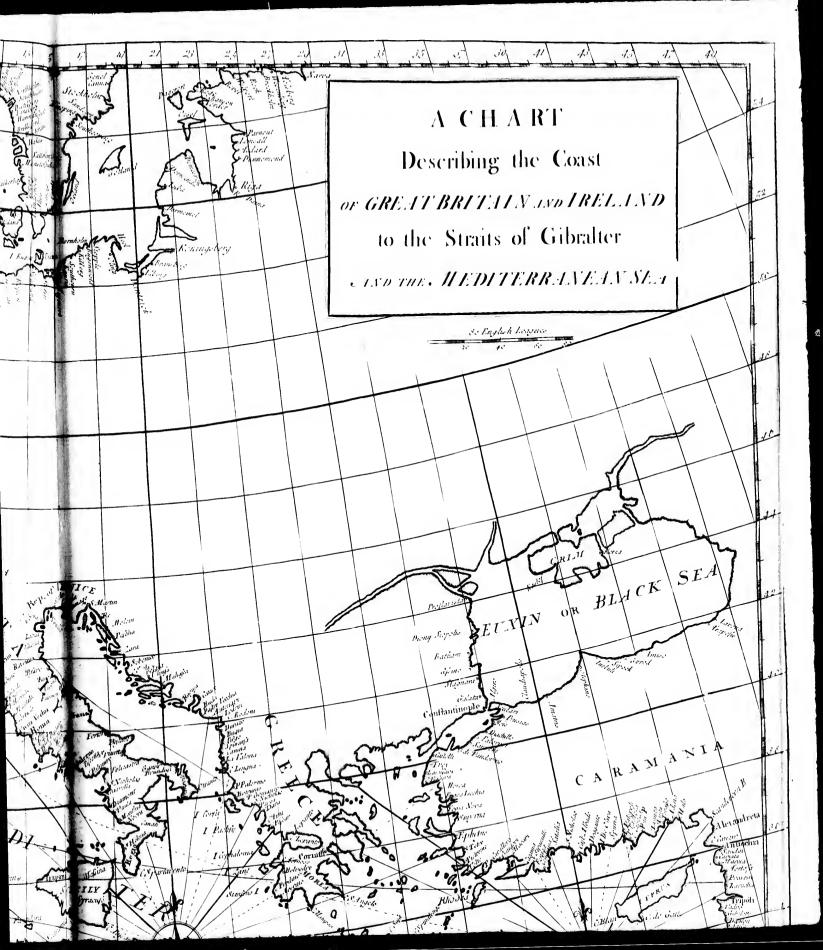
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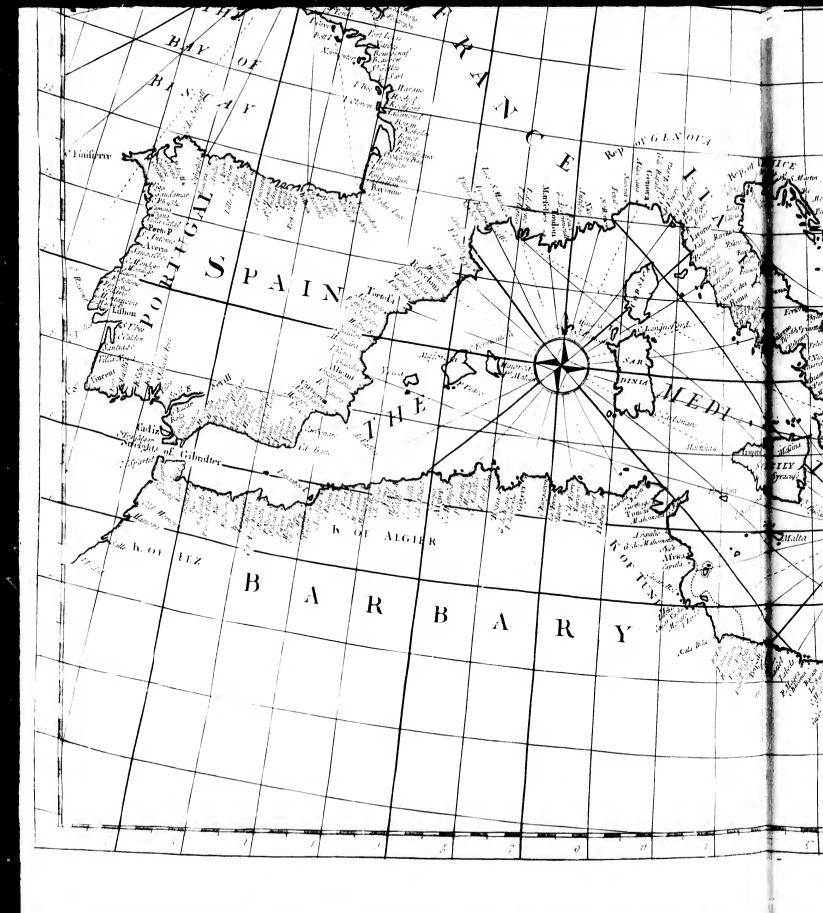


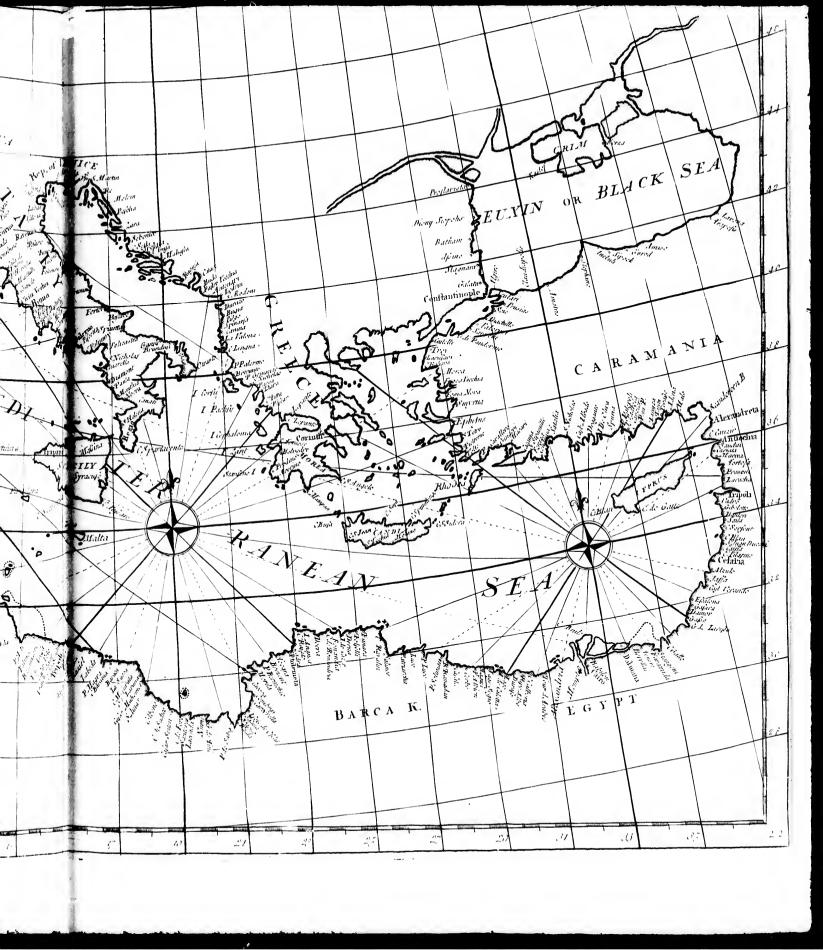


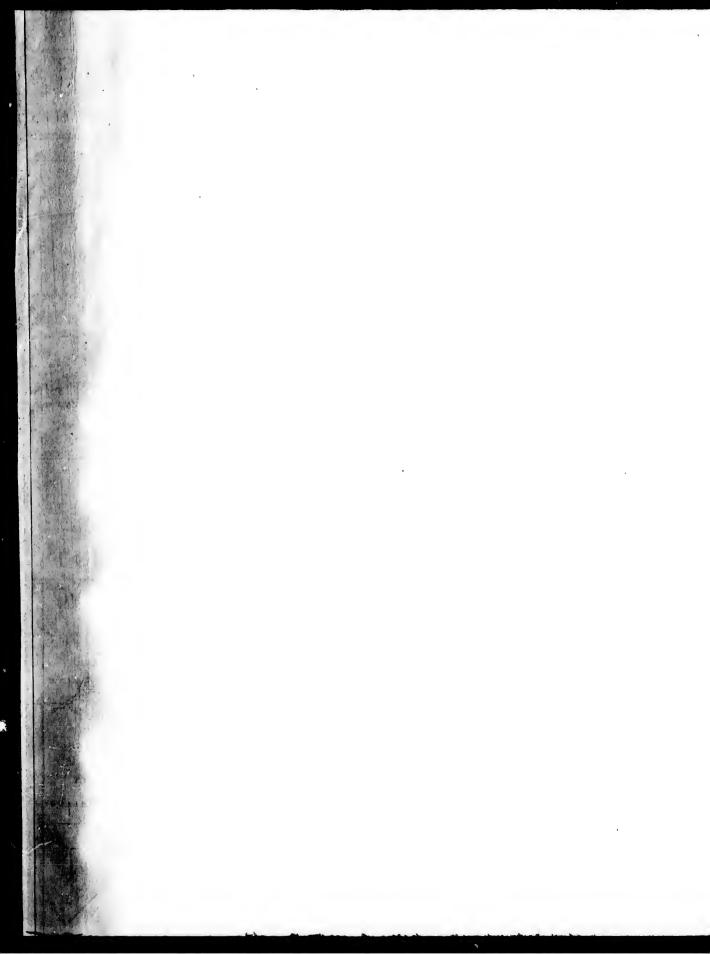












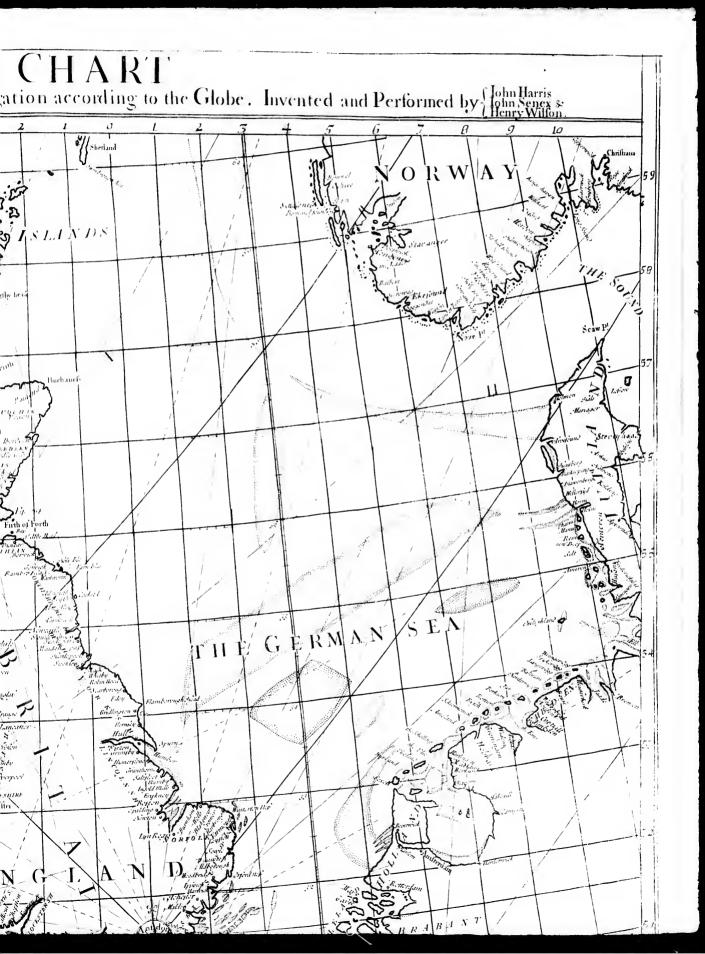
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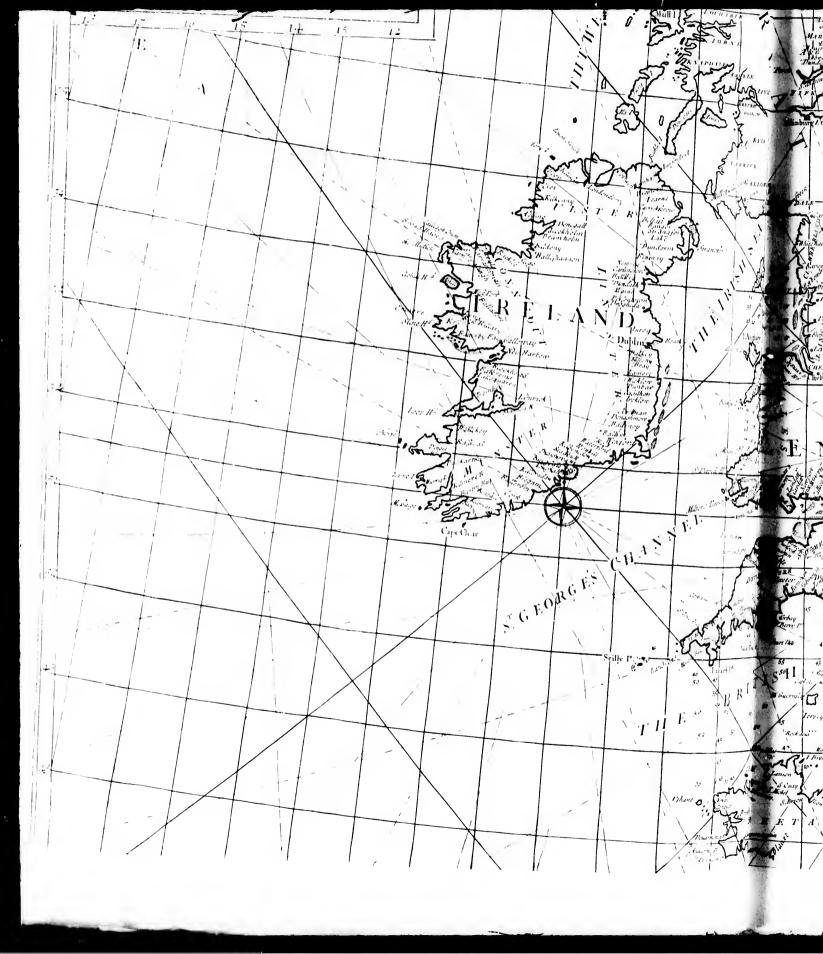
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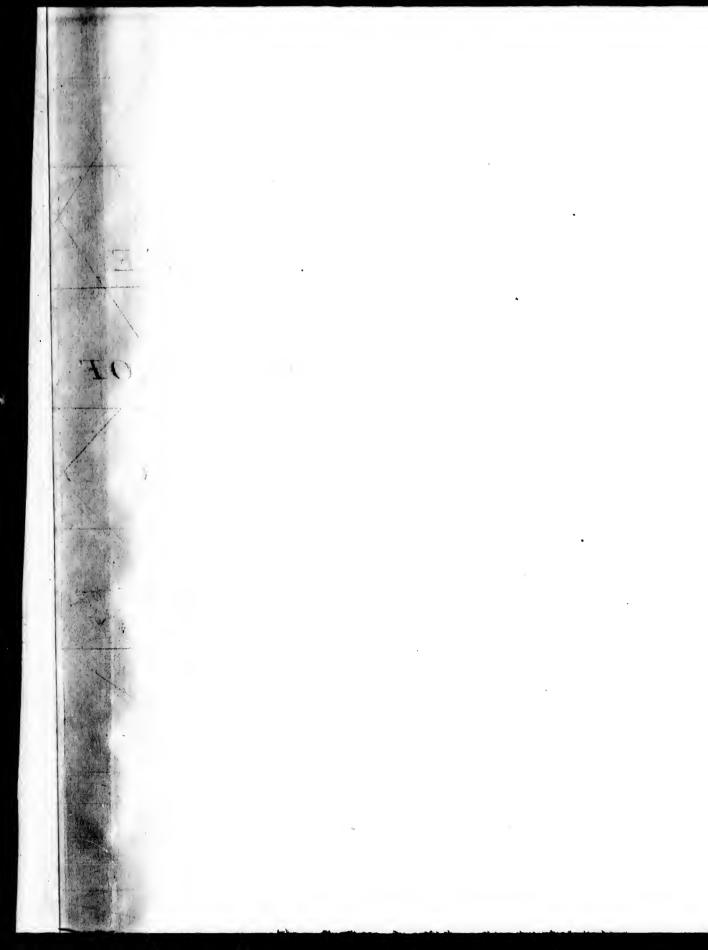


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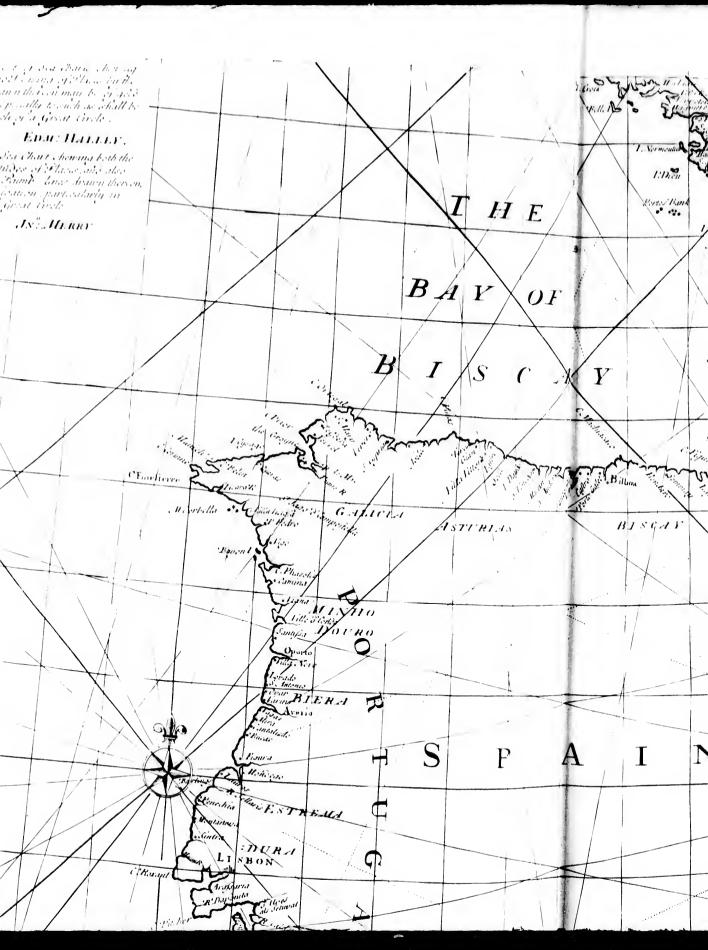


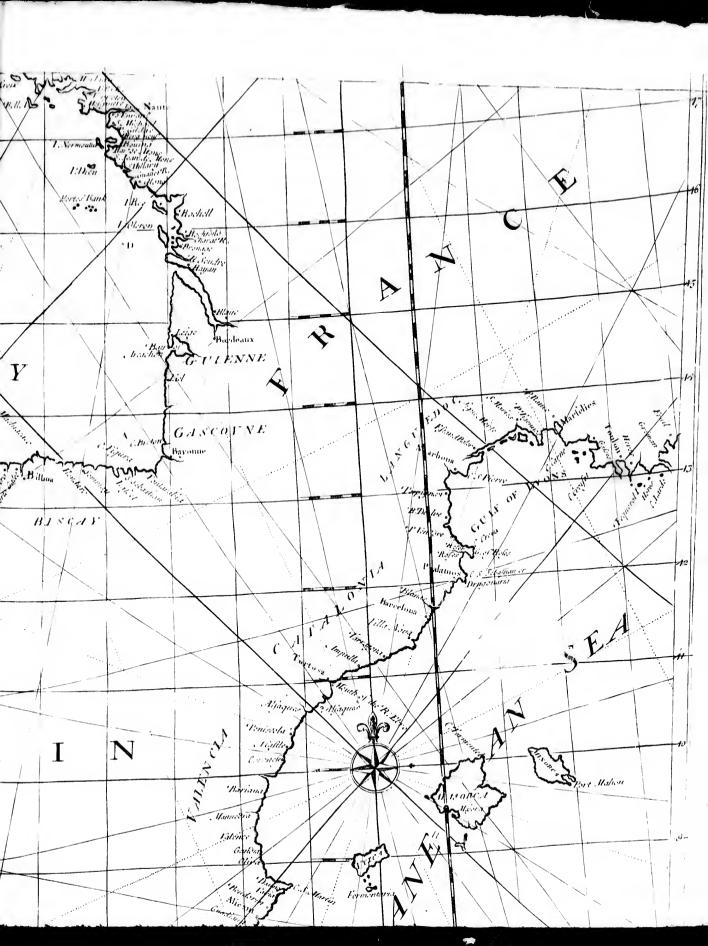






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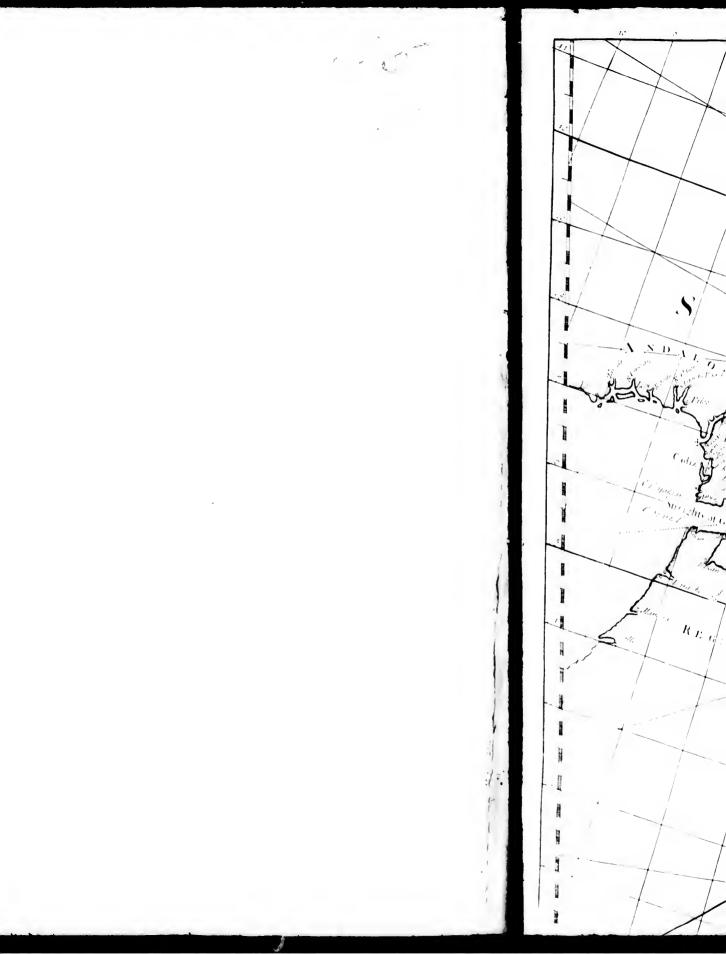


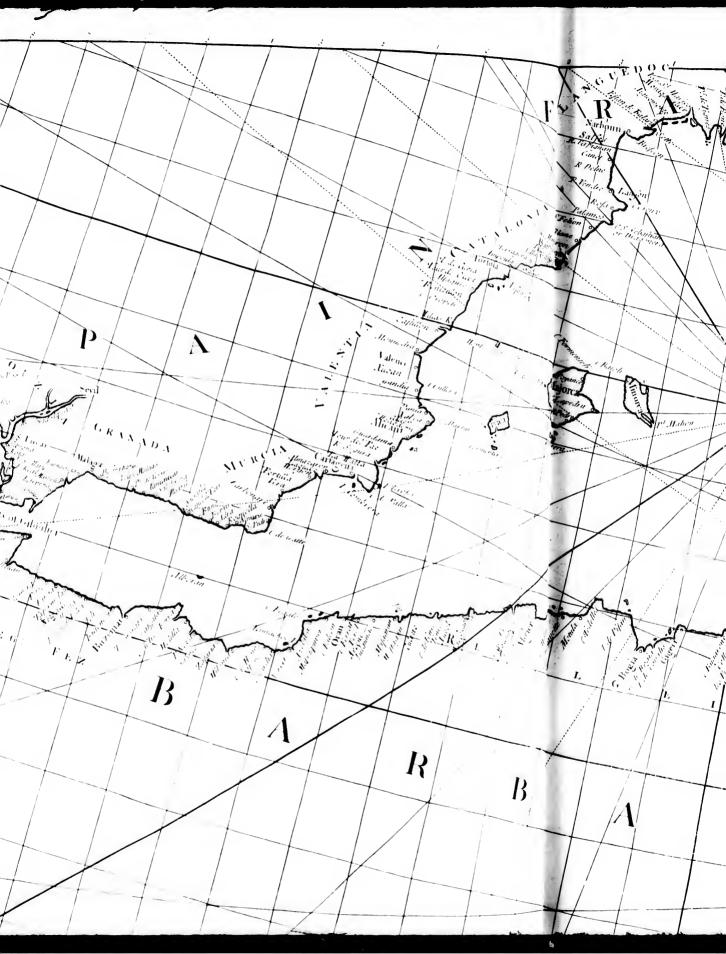


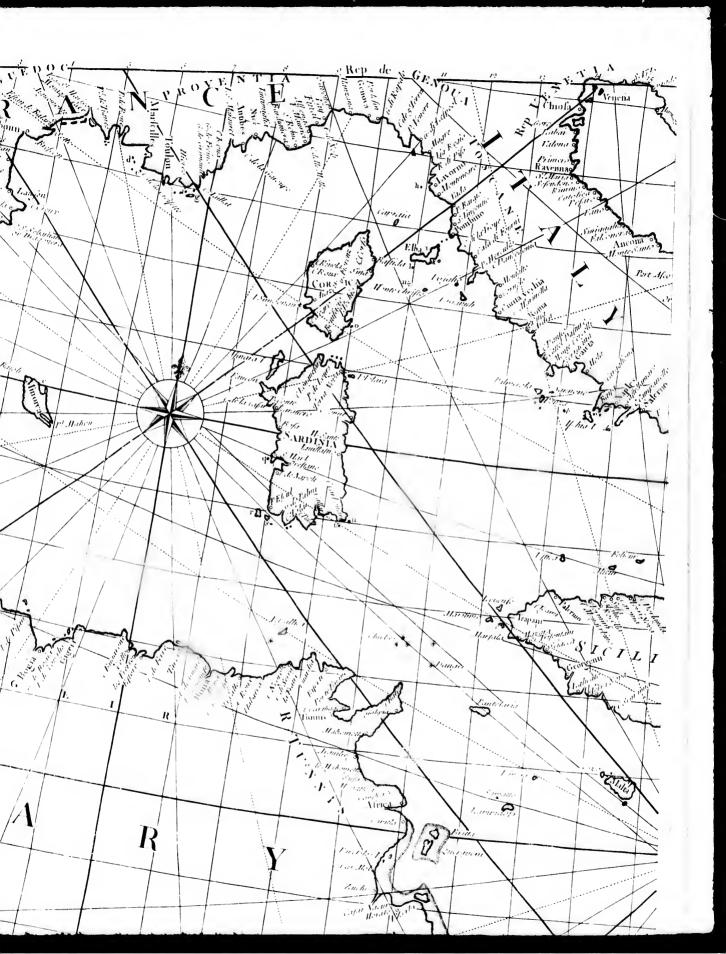


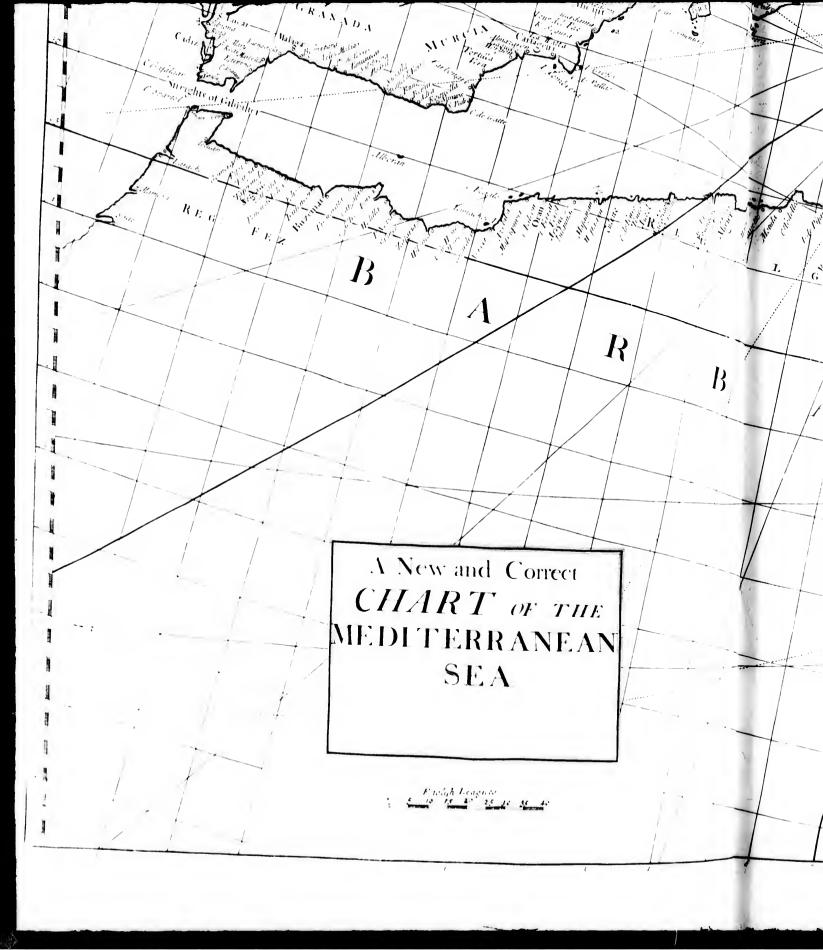


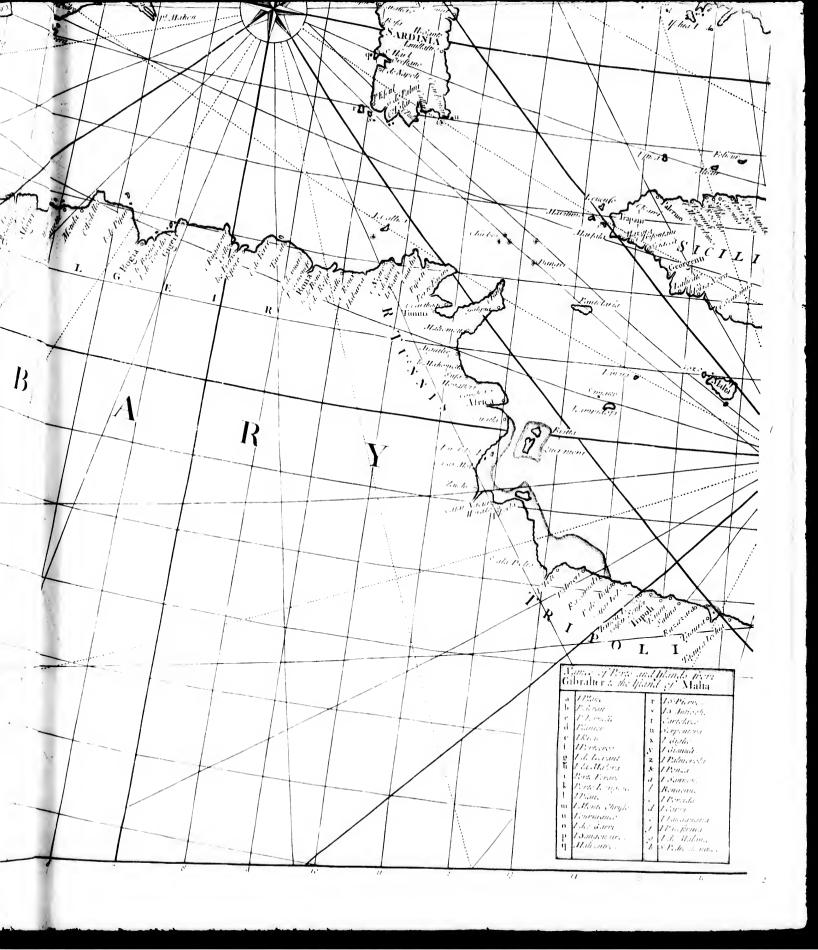




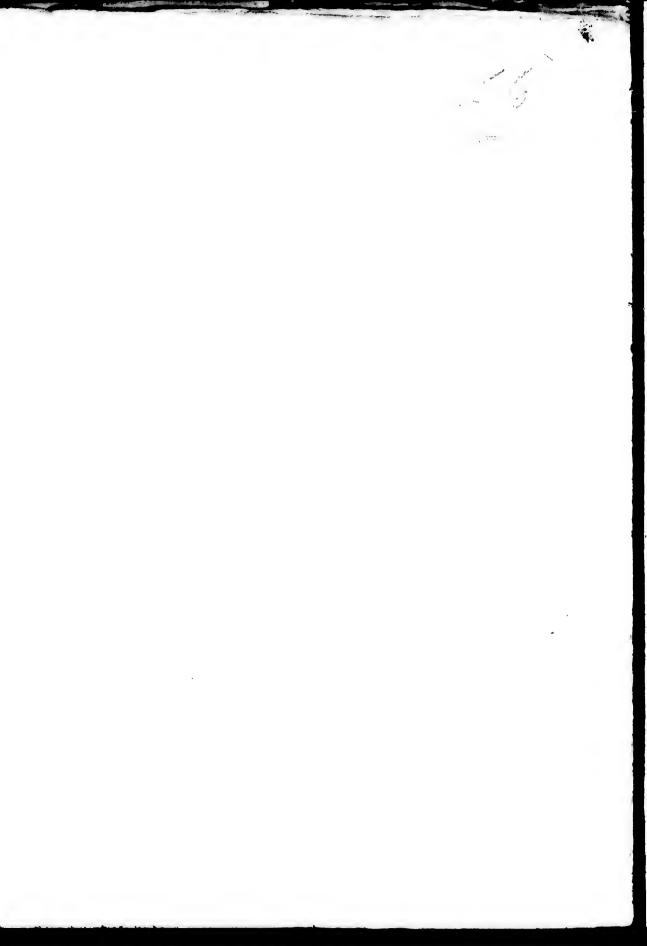


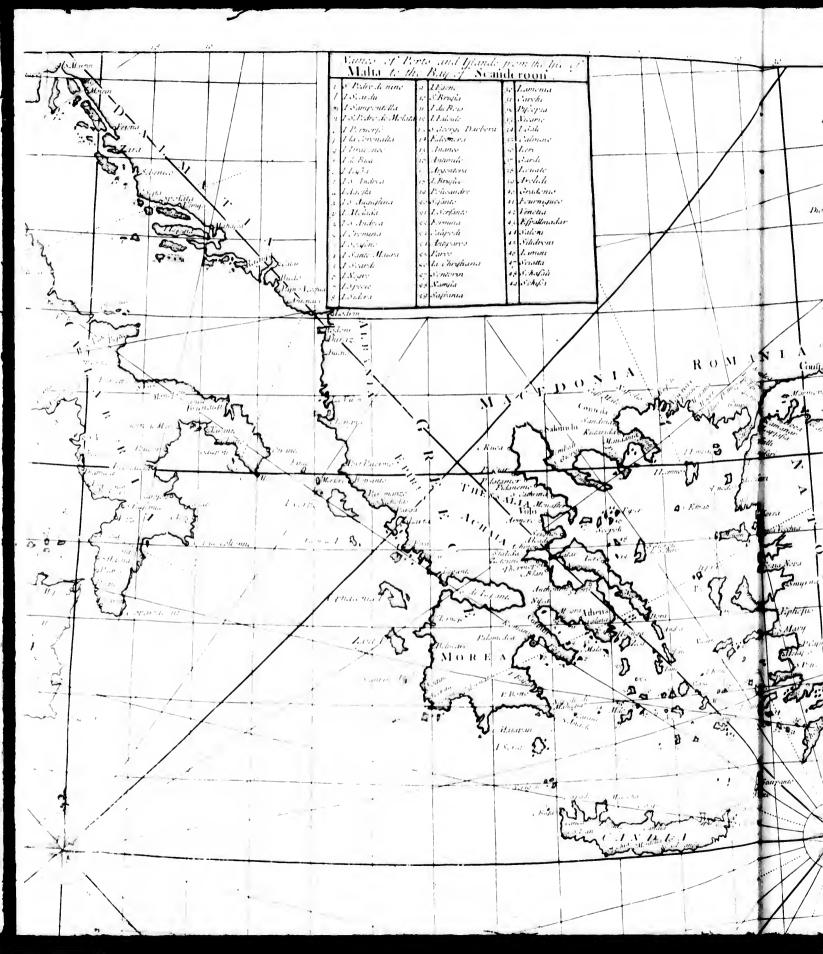




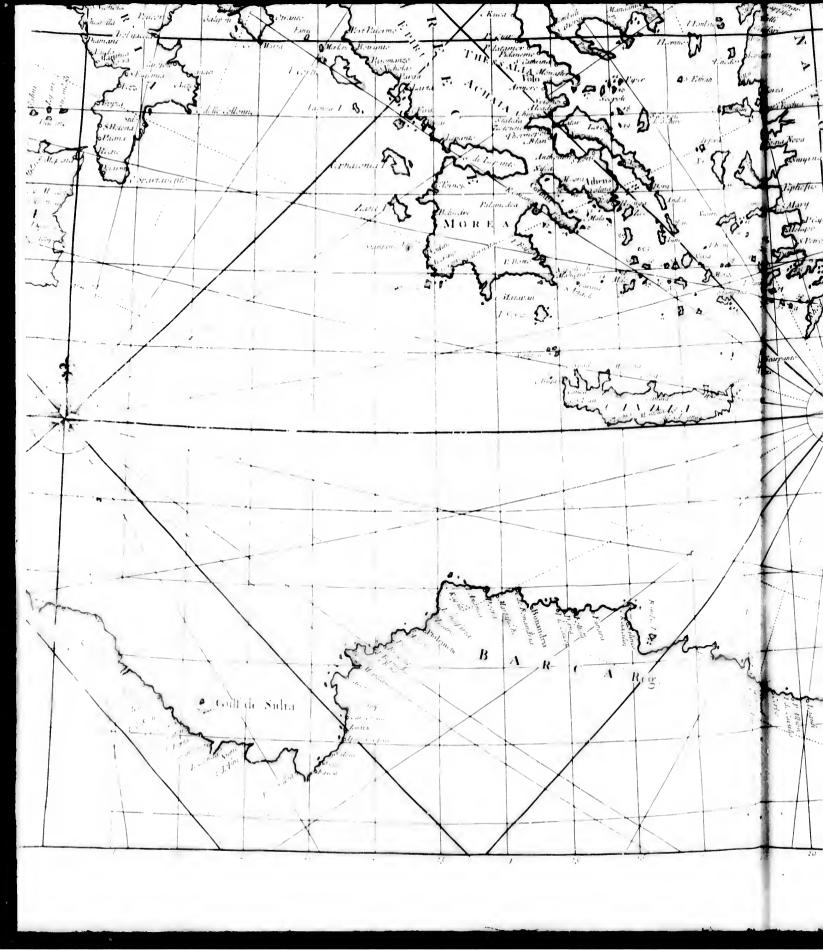


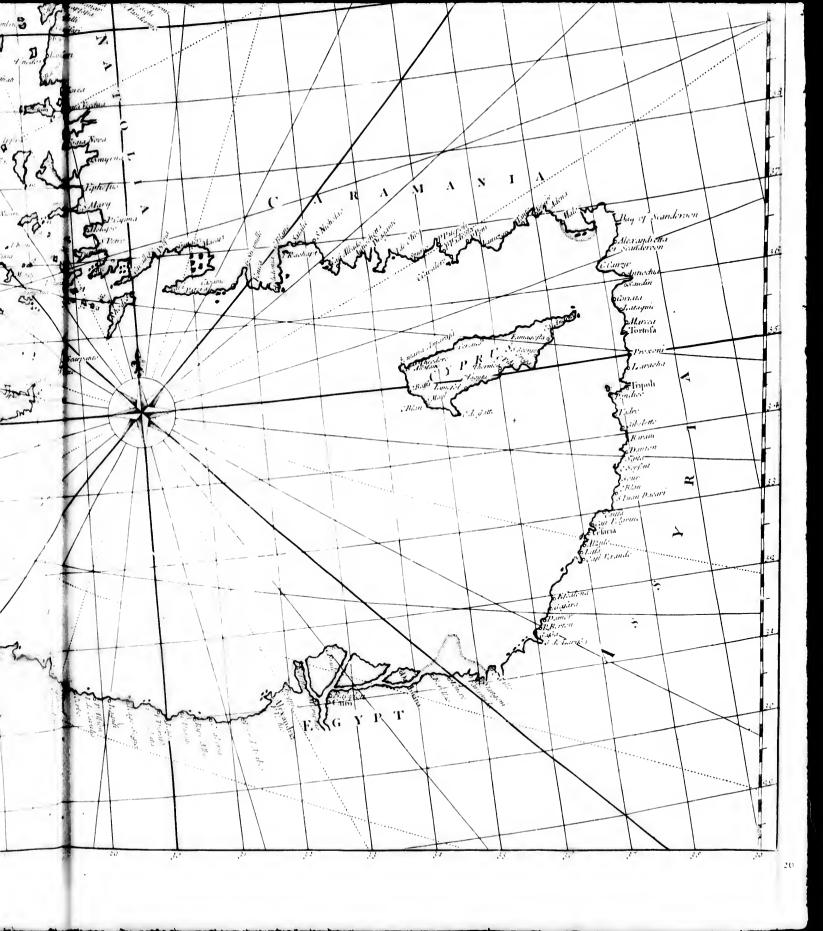


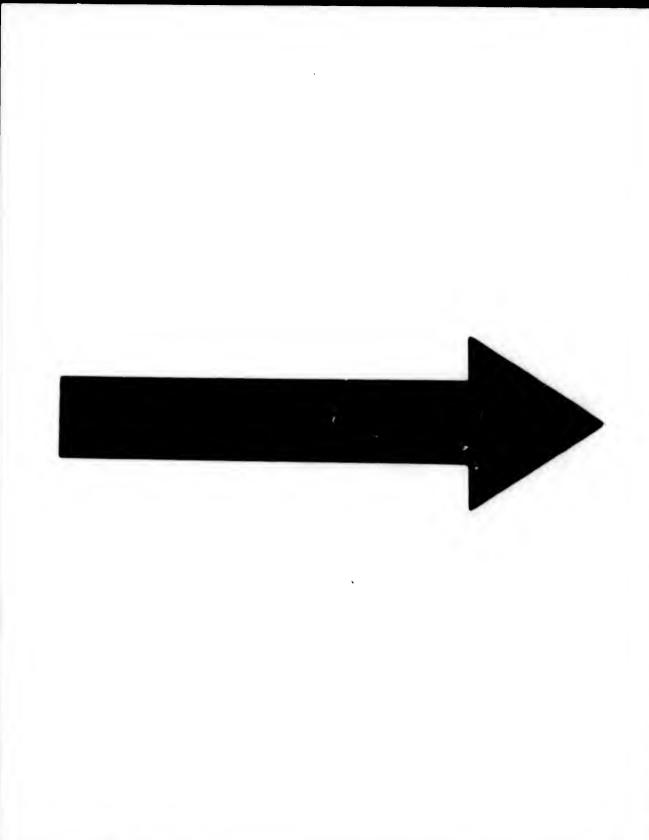












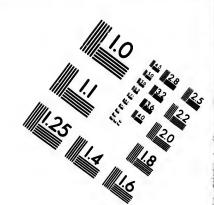
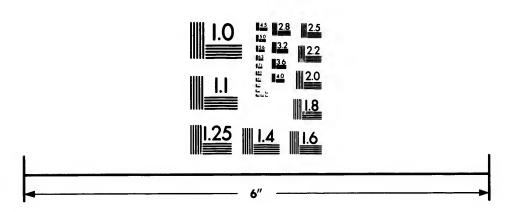
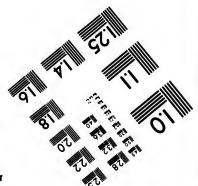


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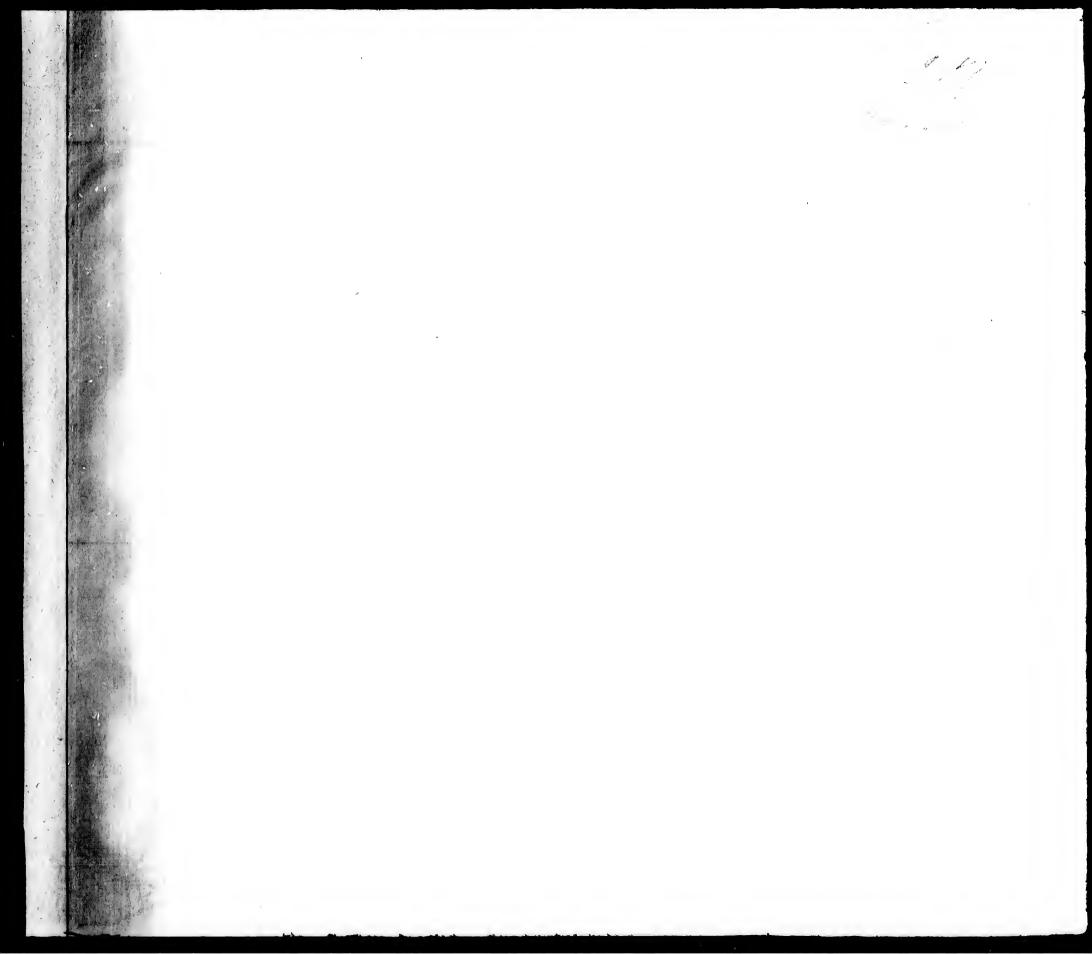


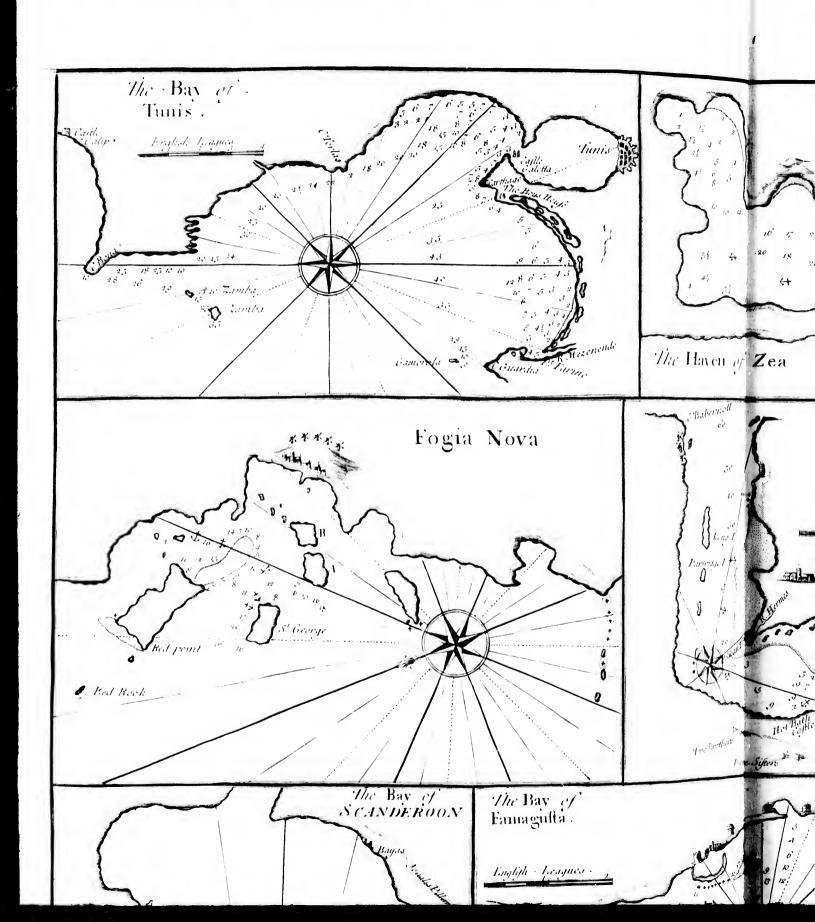
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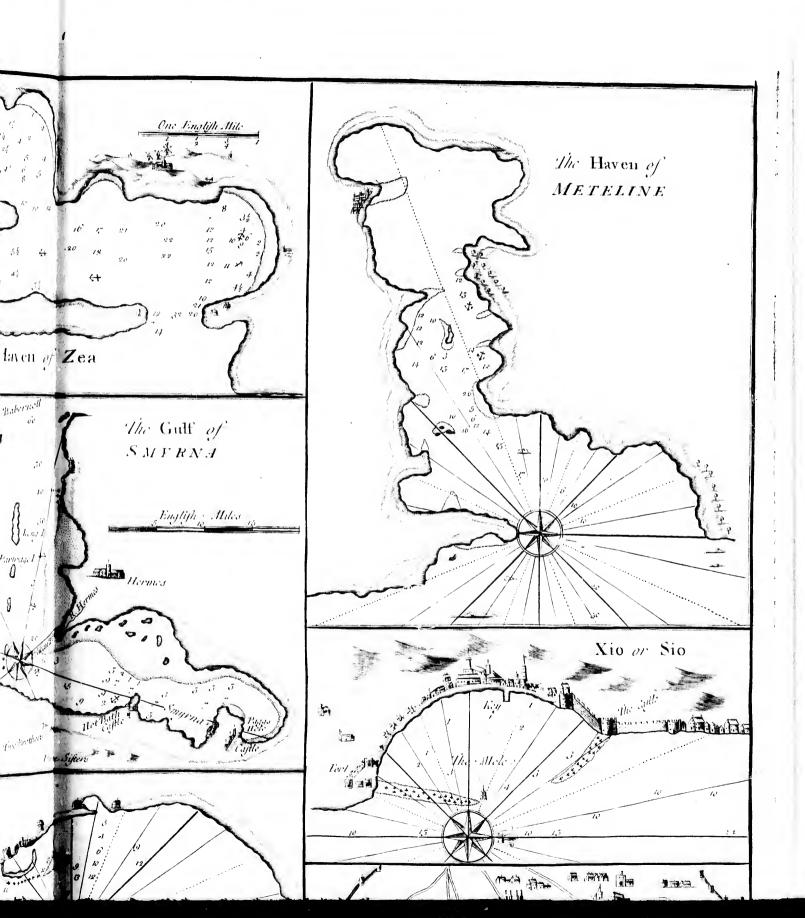
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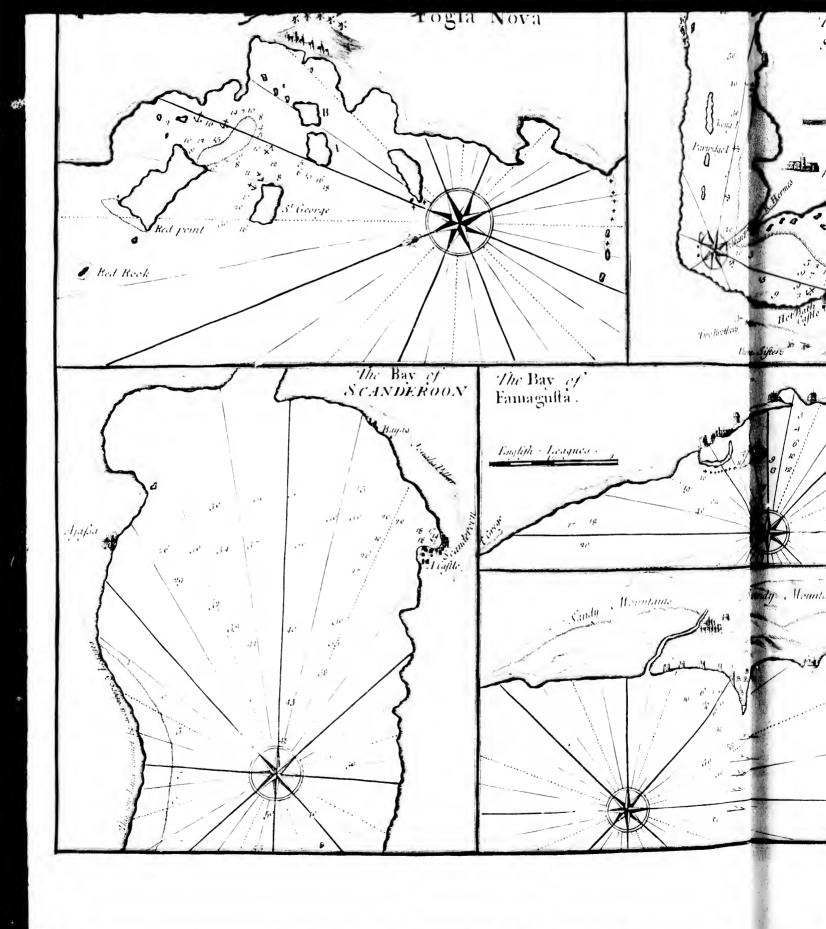


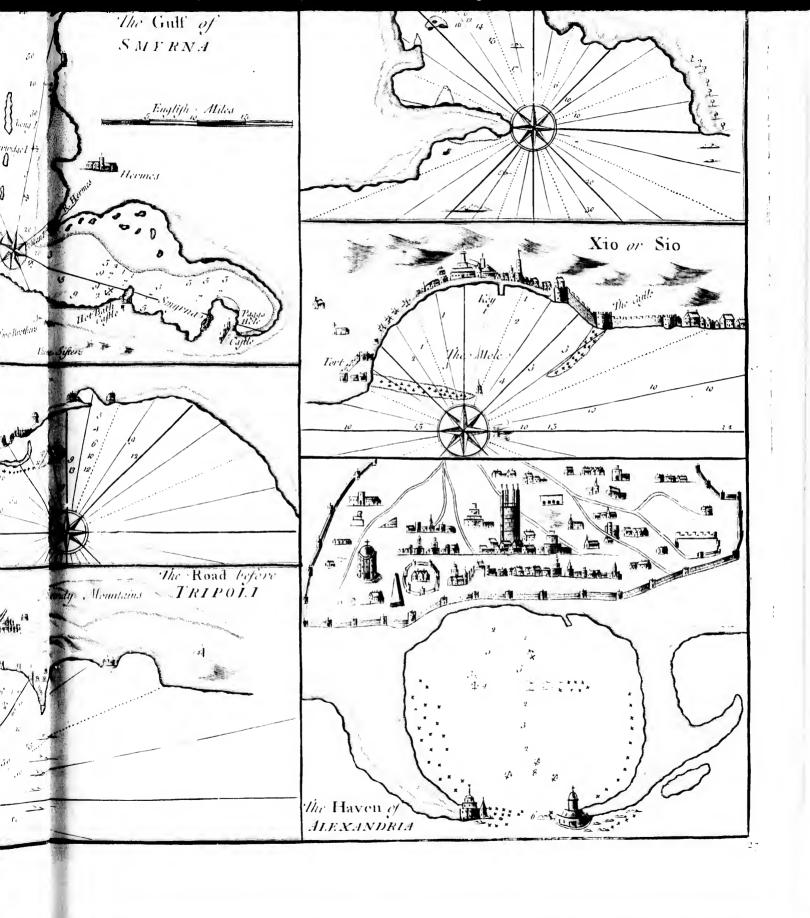


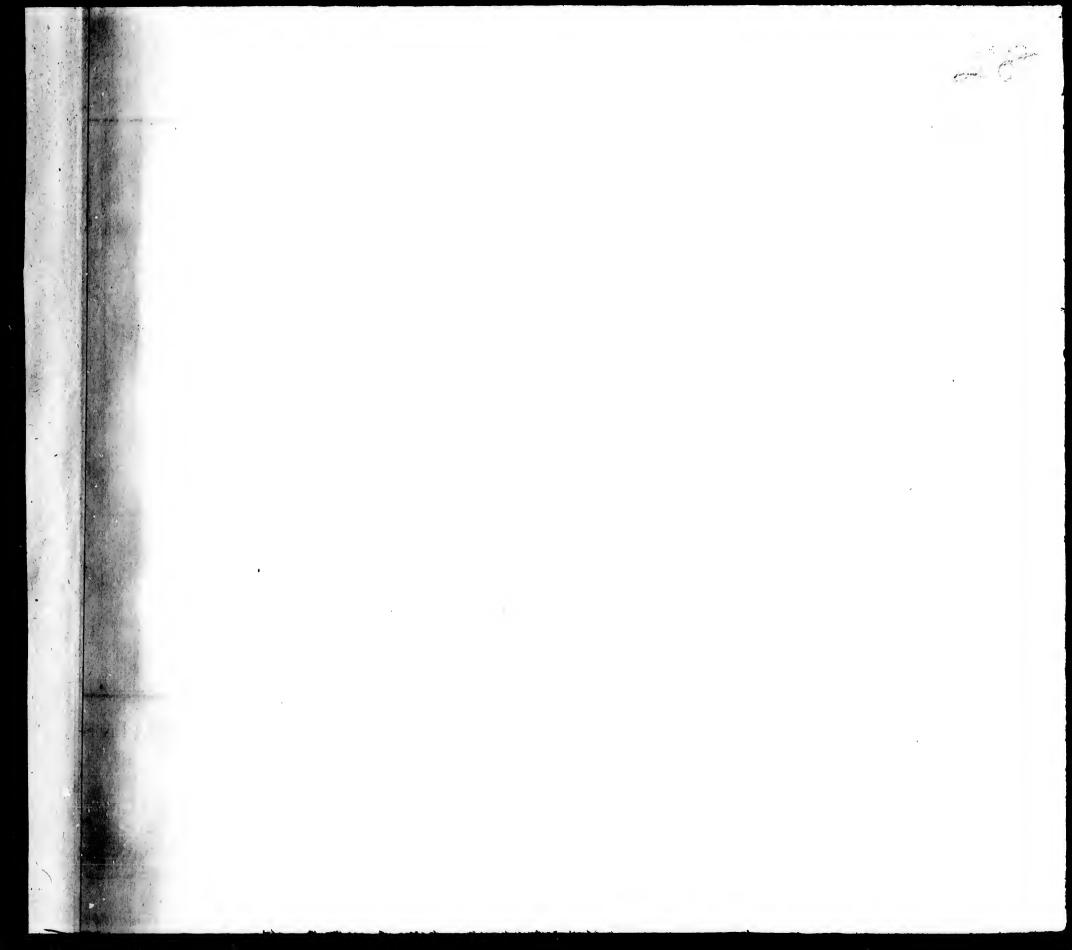


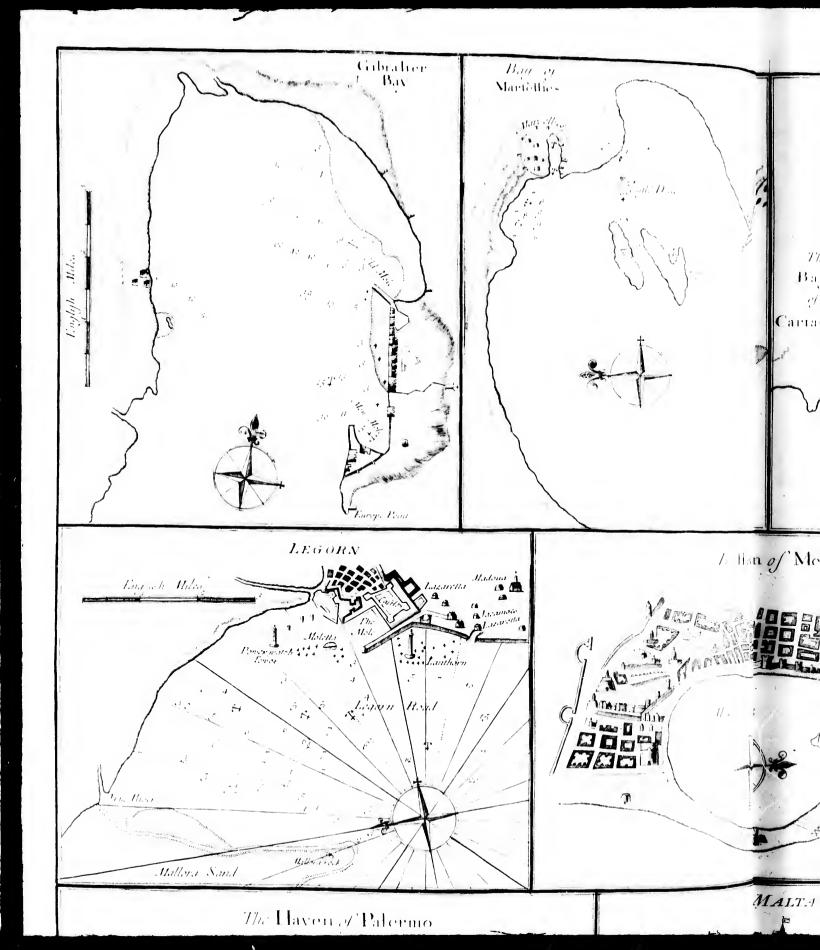


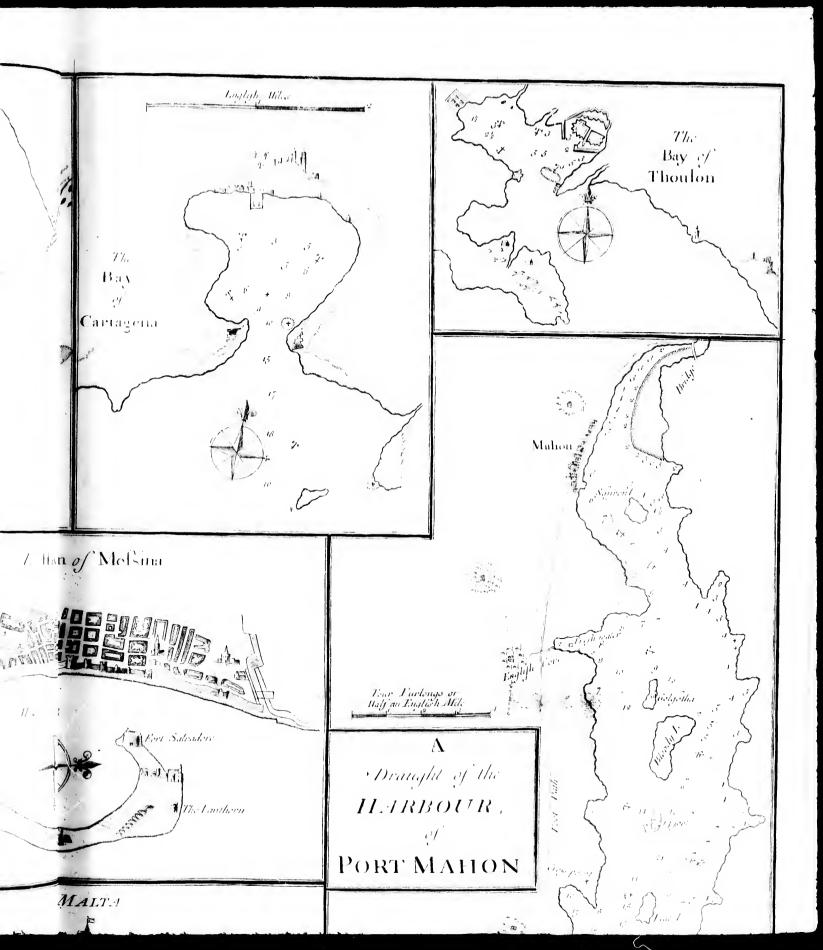


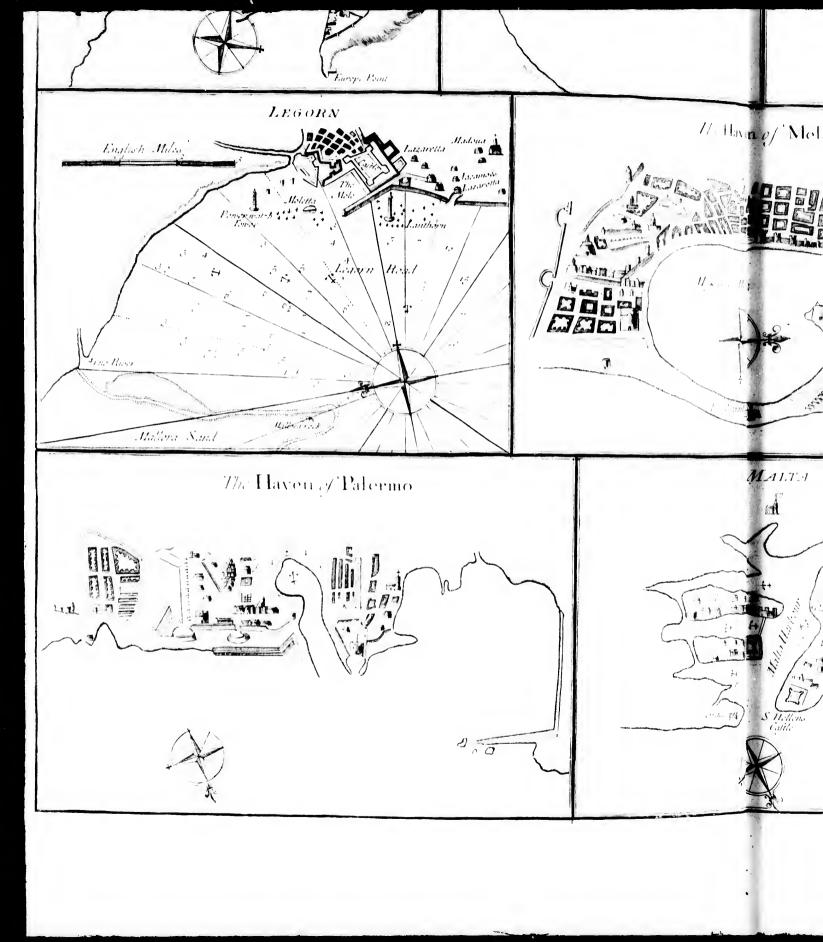


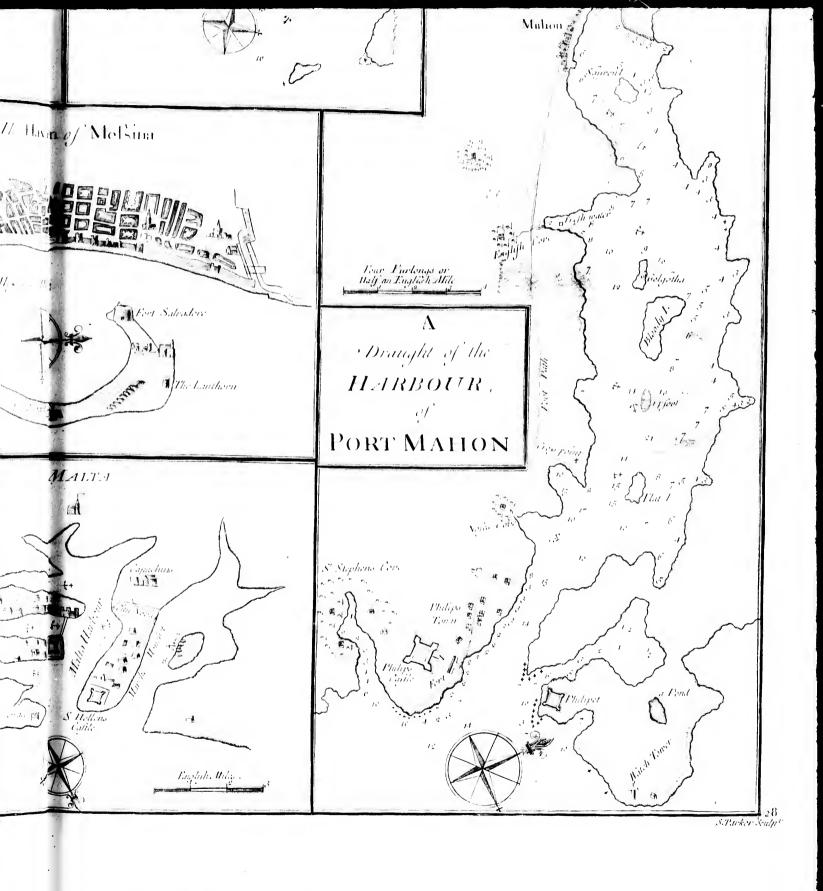




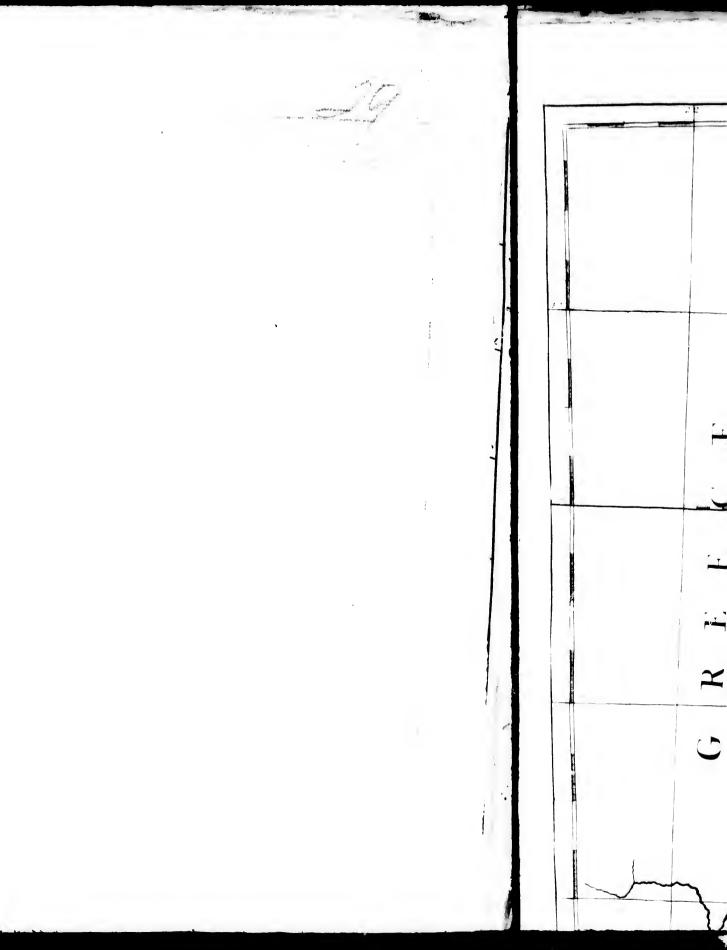


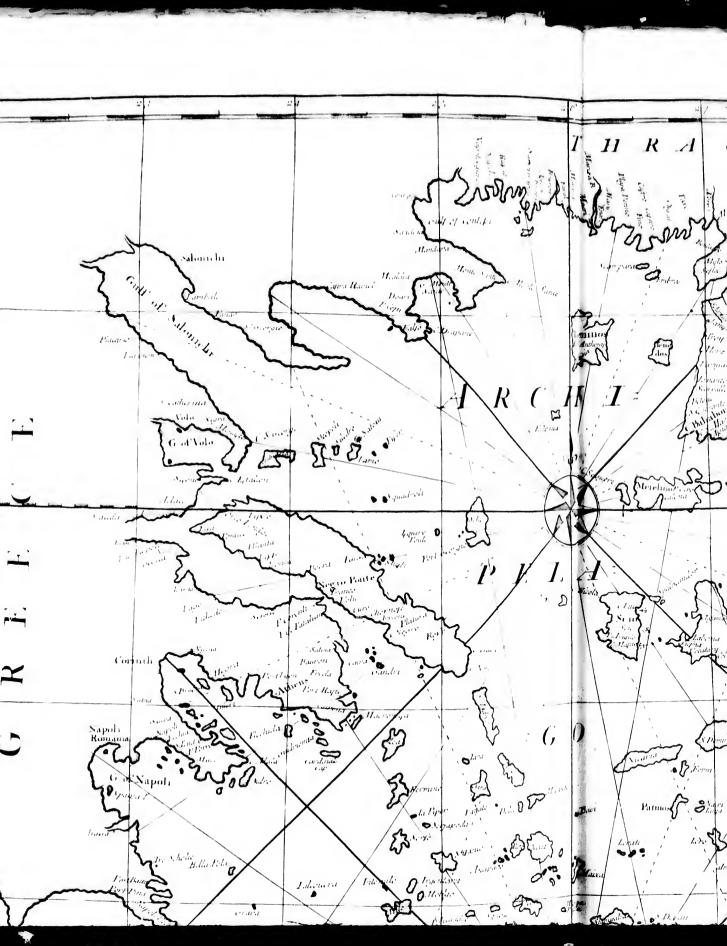




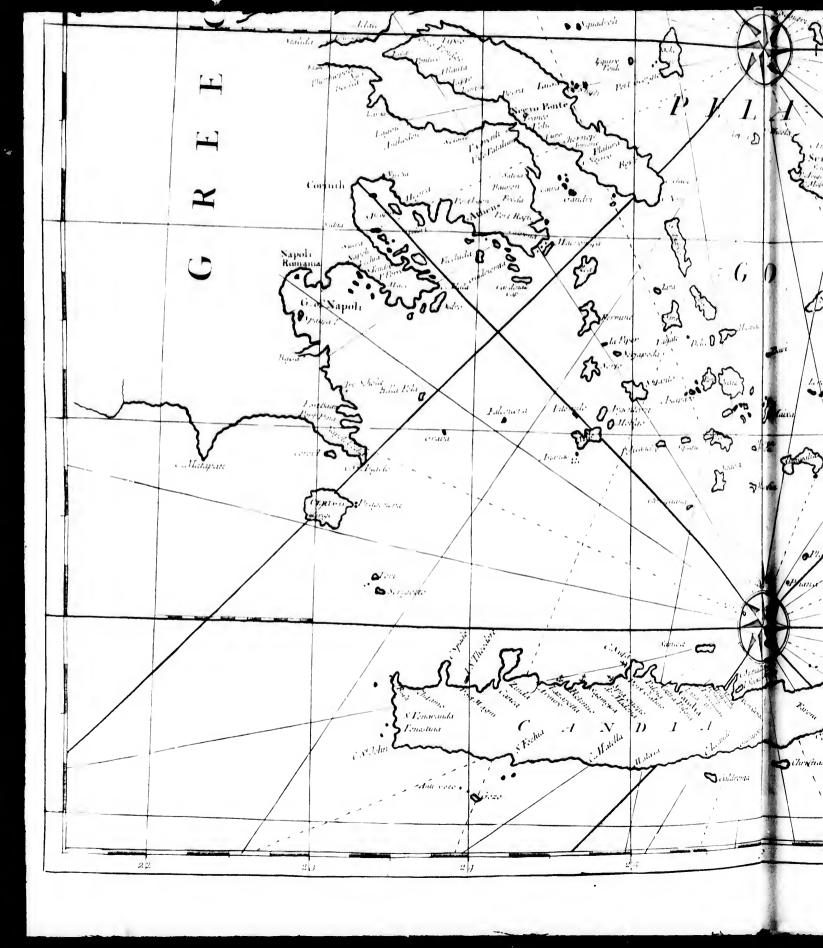


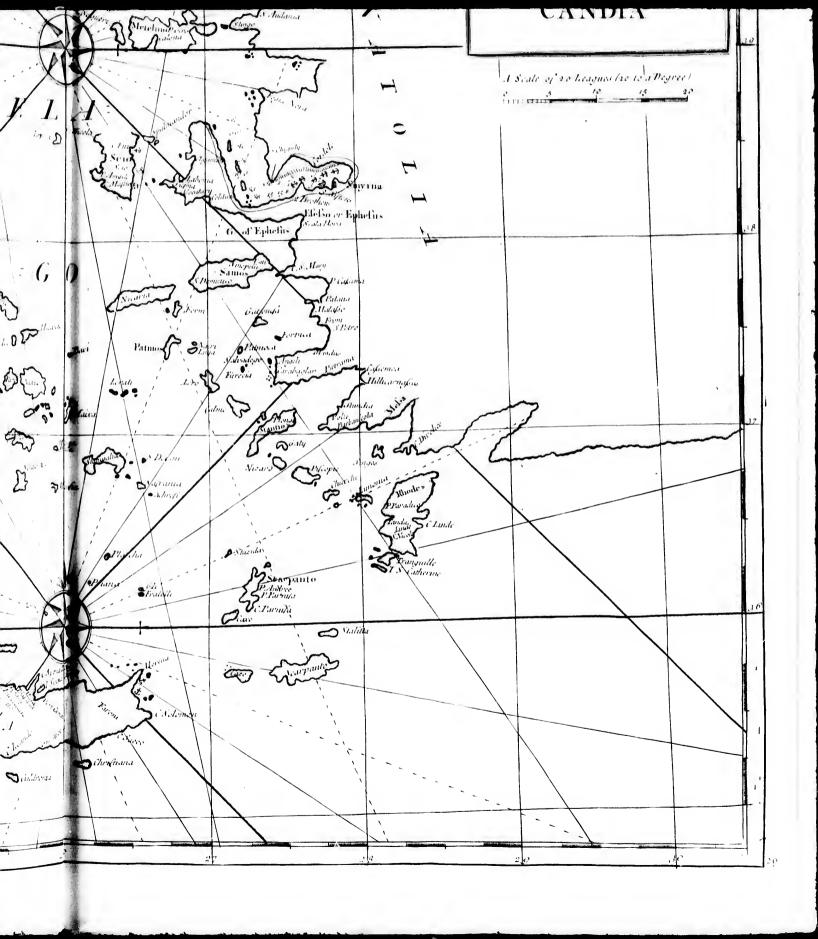


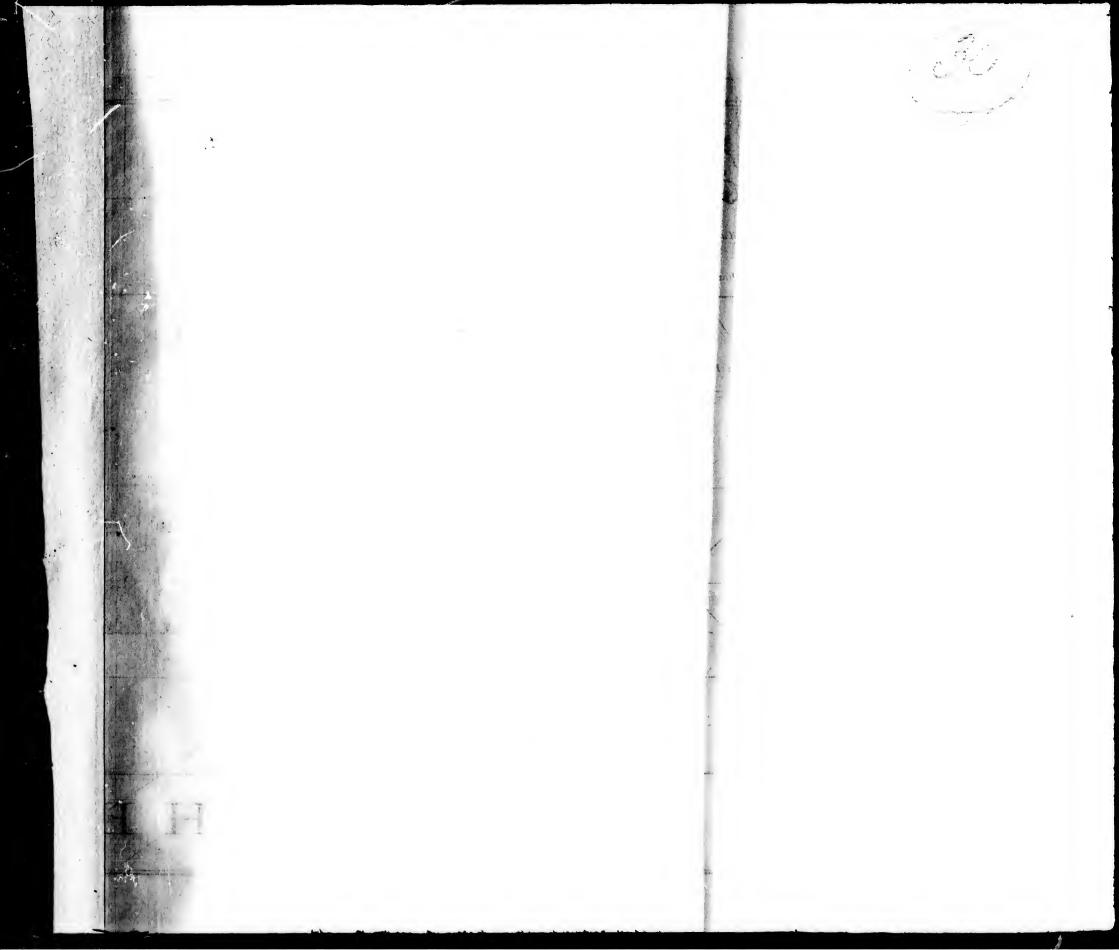


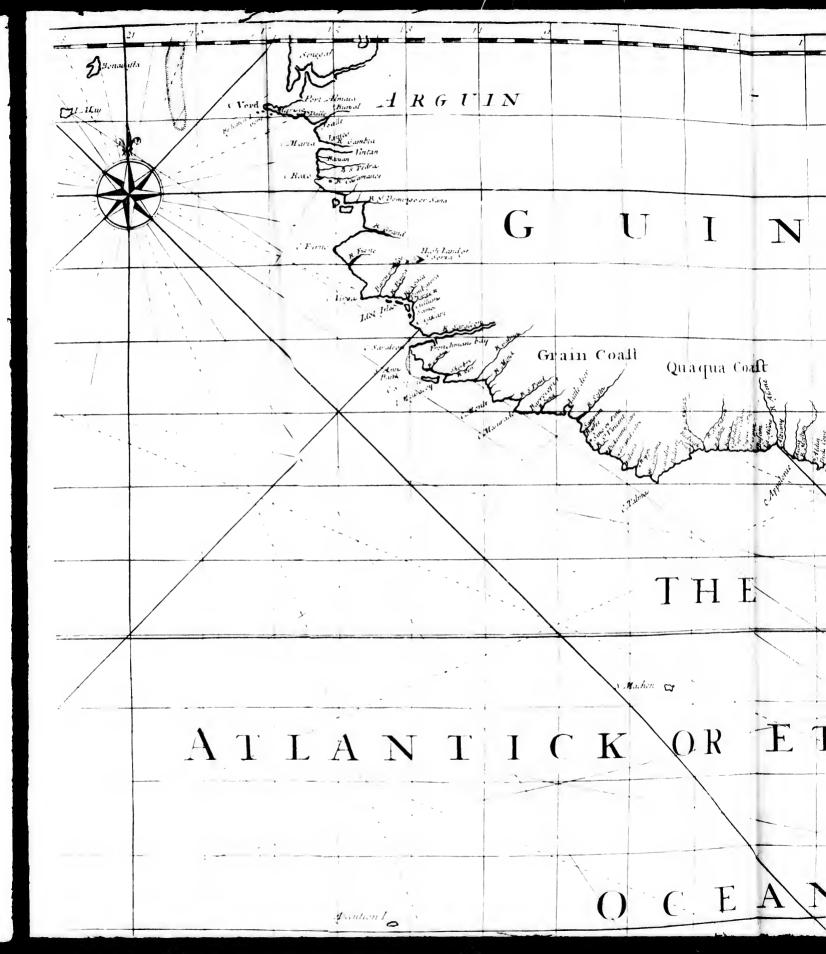


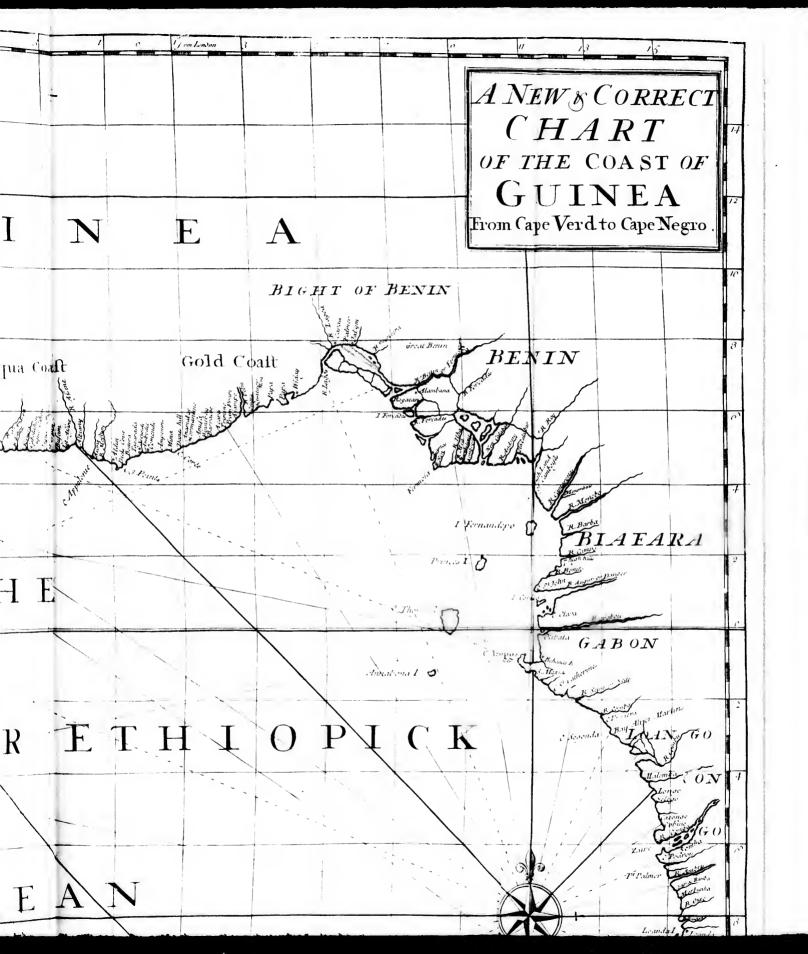


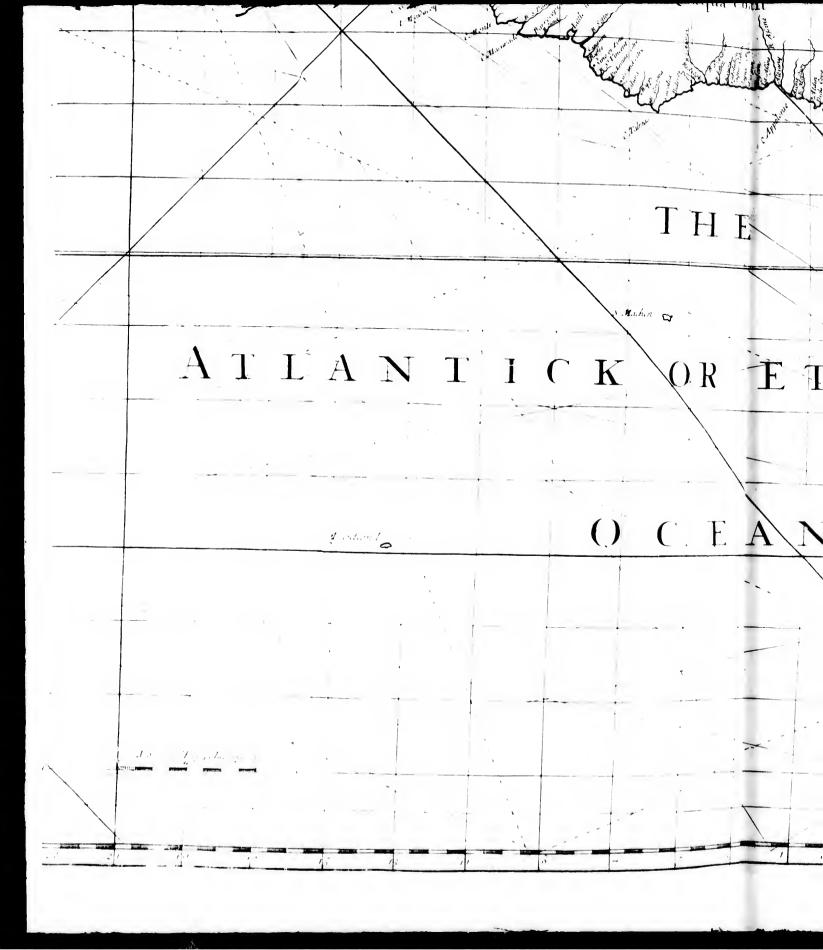


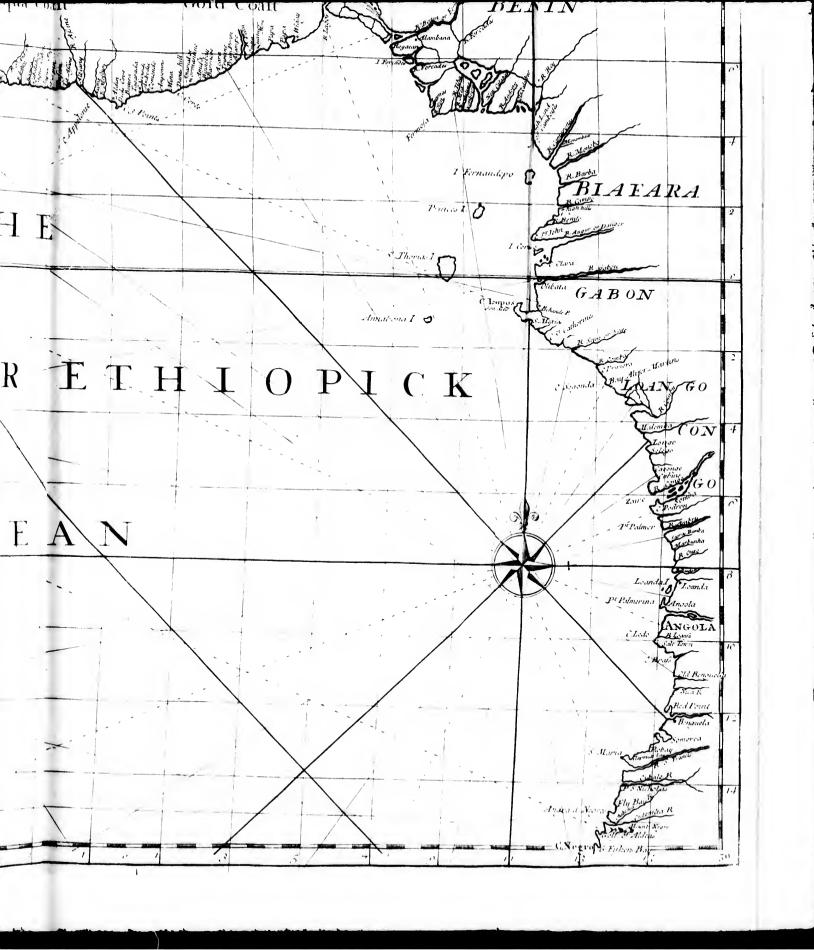




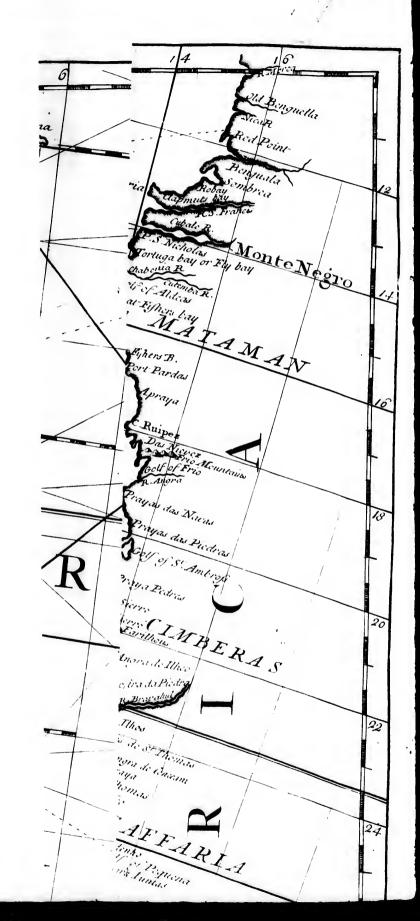


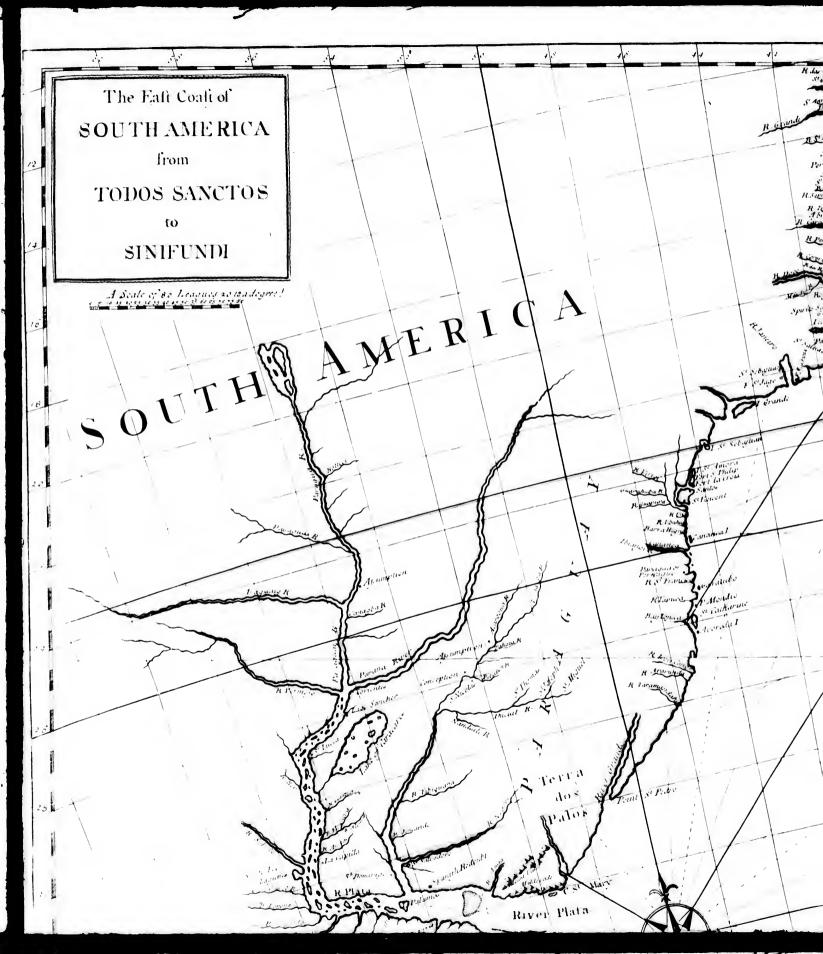




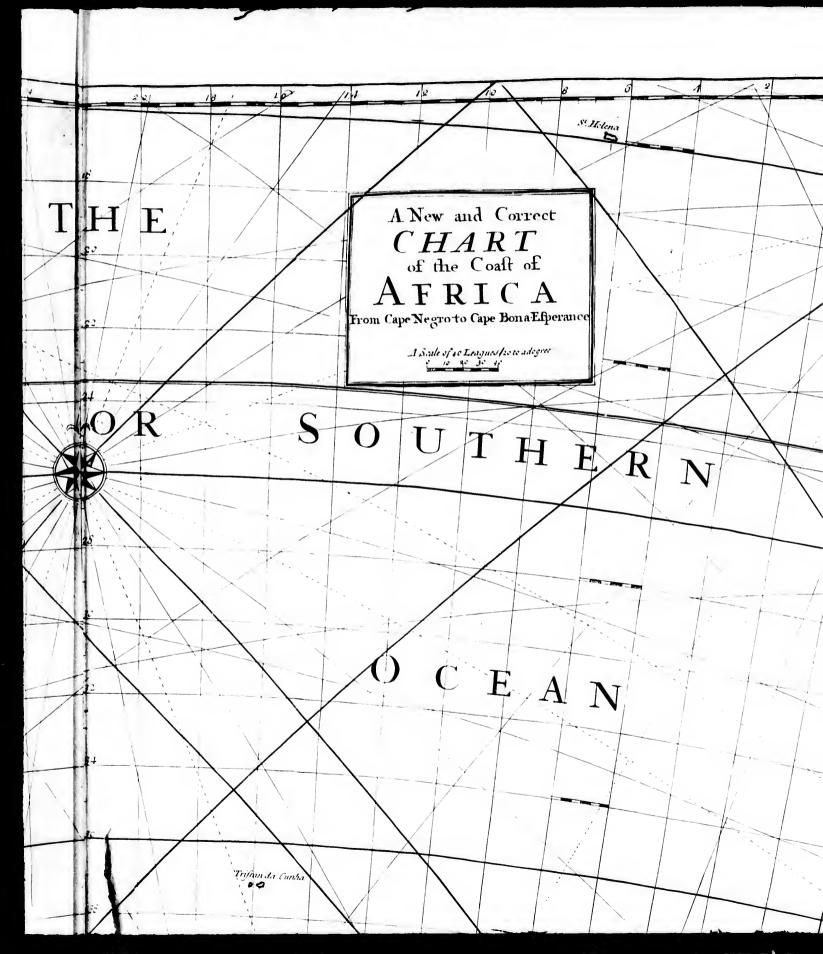




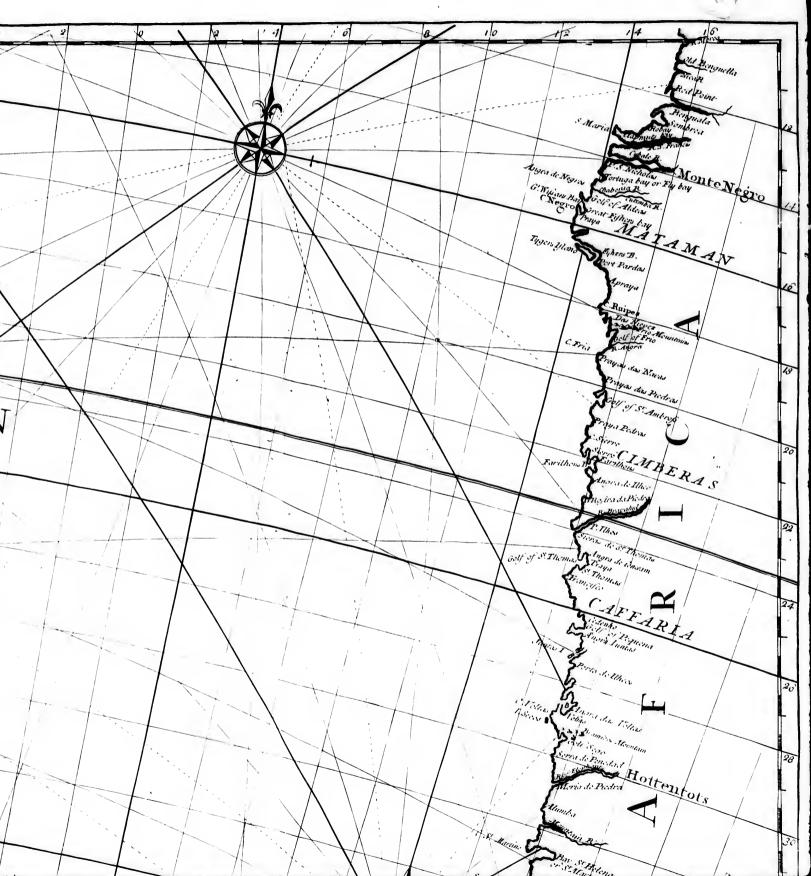


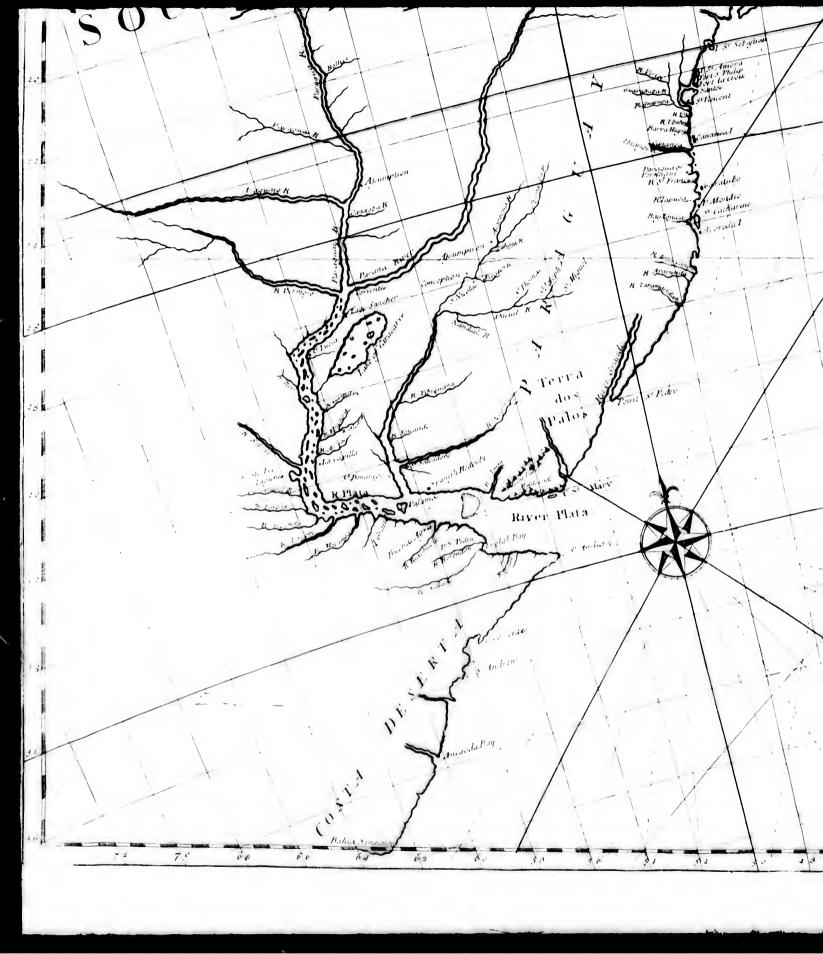


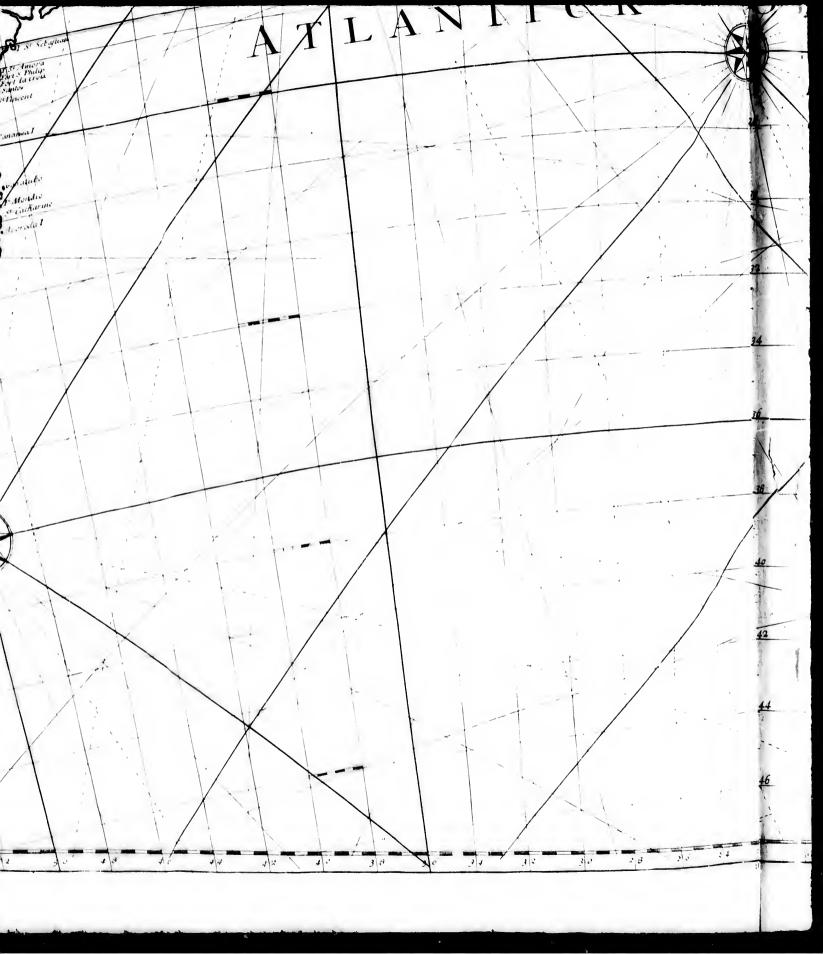


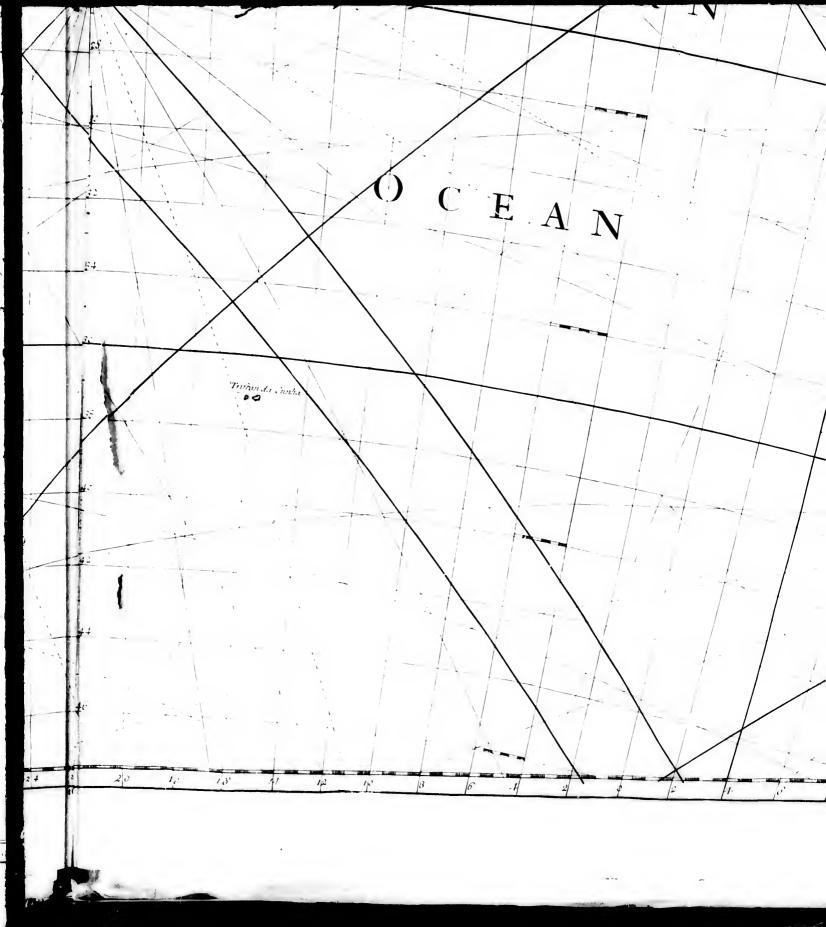


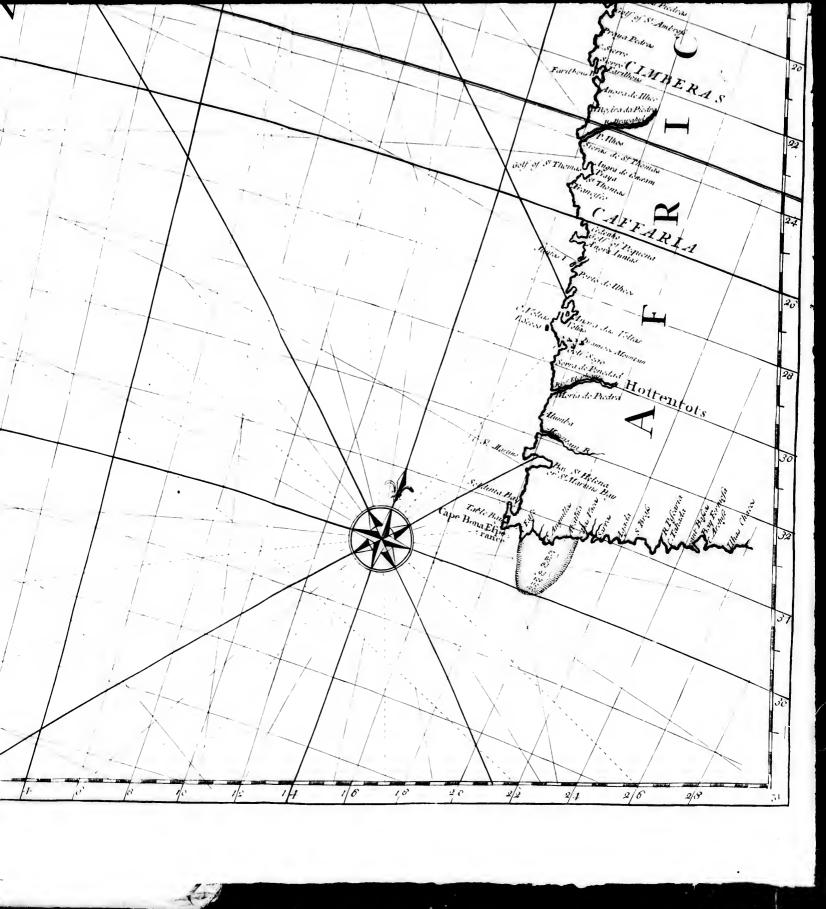


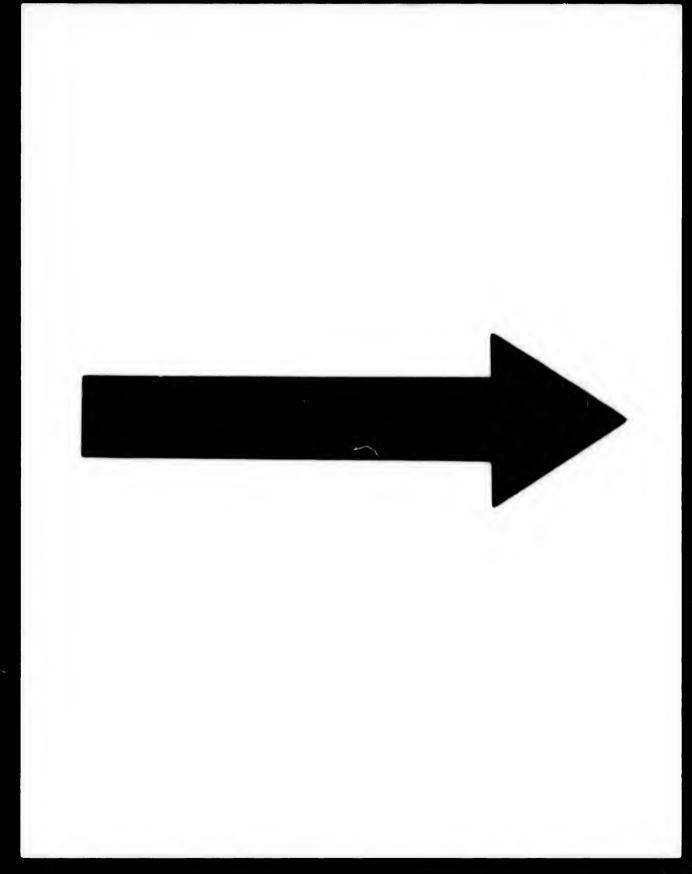












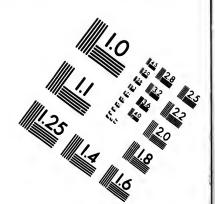
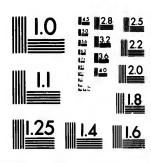


IMAGE EVALUATION TEST TARGET (MT-3)

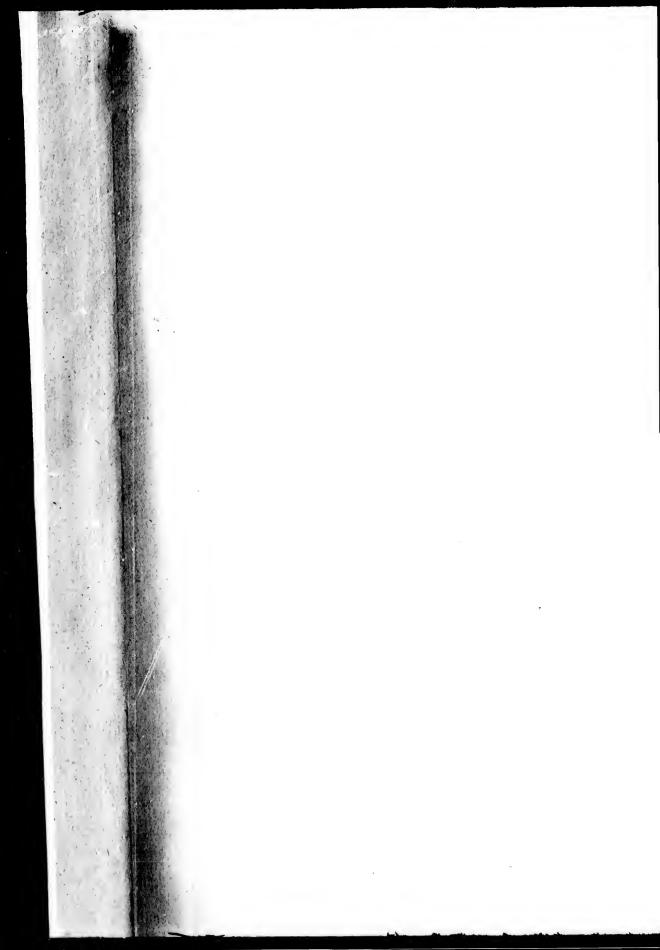


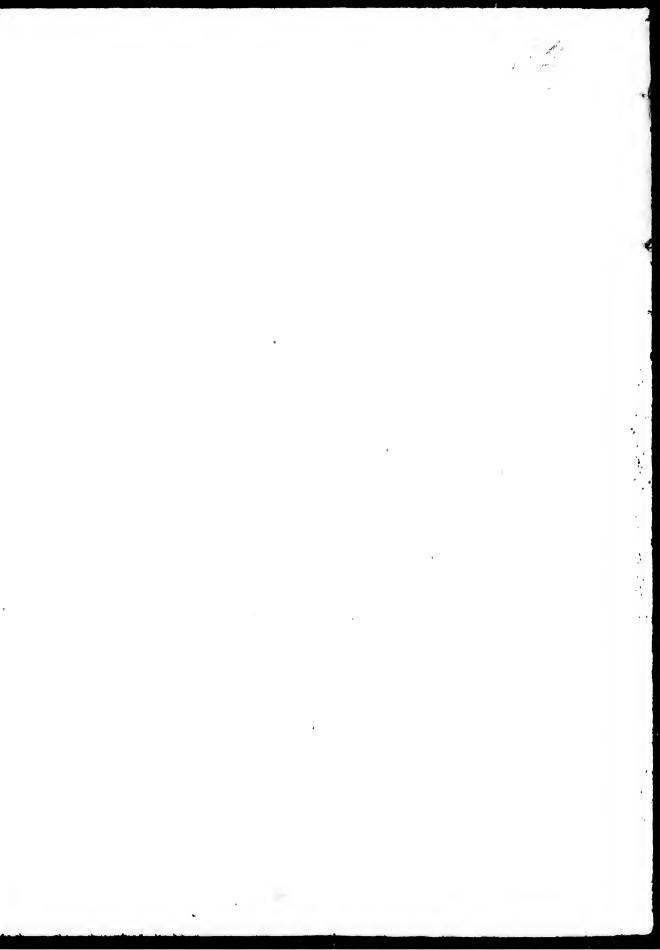
Photographic Sciences Corporation

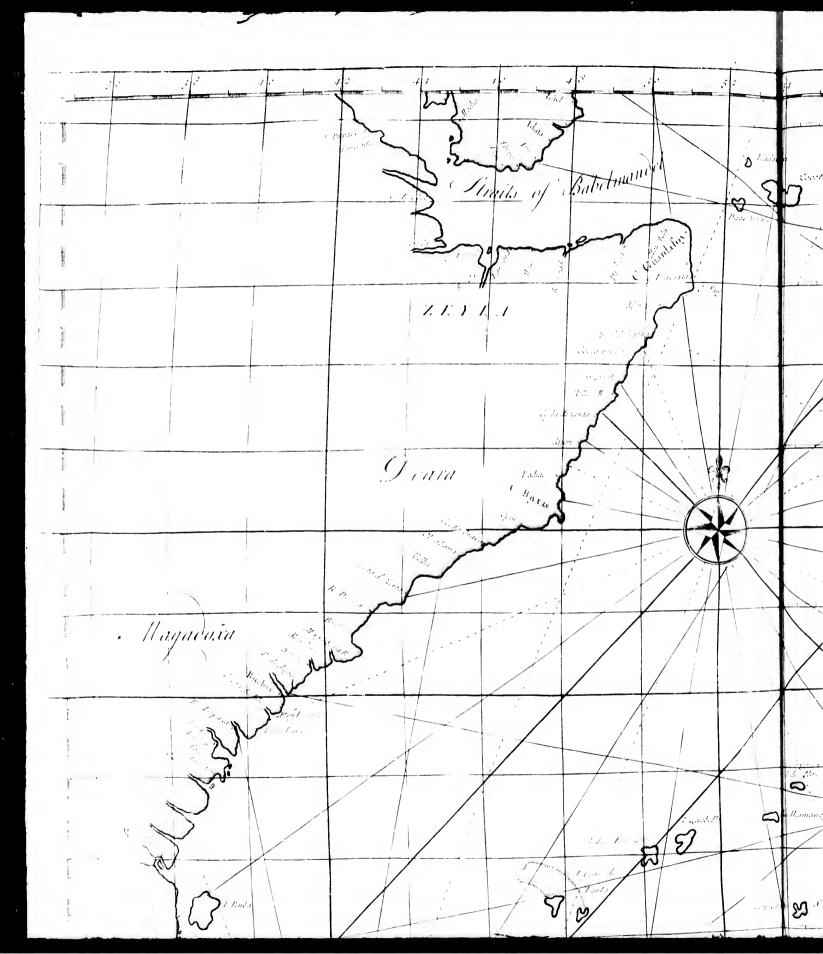
23 WEST RAAIN STREET WEBSTER, N.Y. 14580 (716) 872-4503

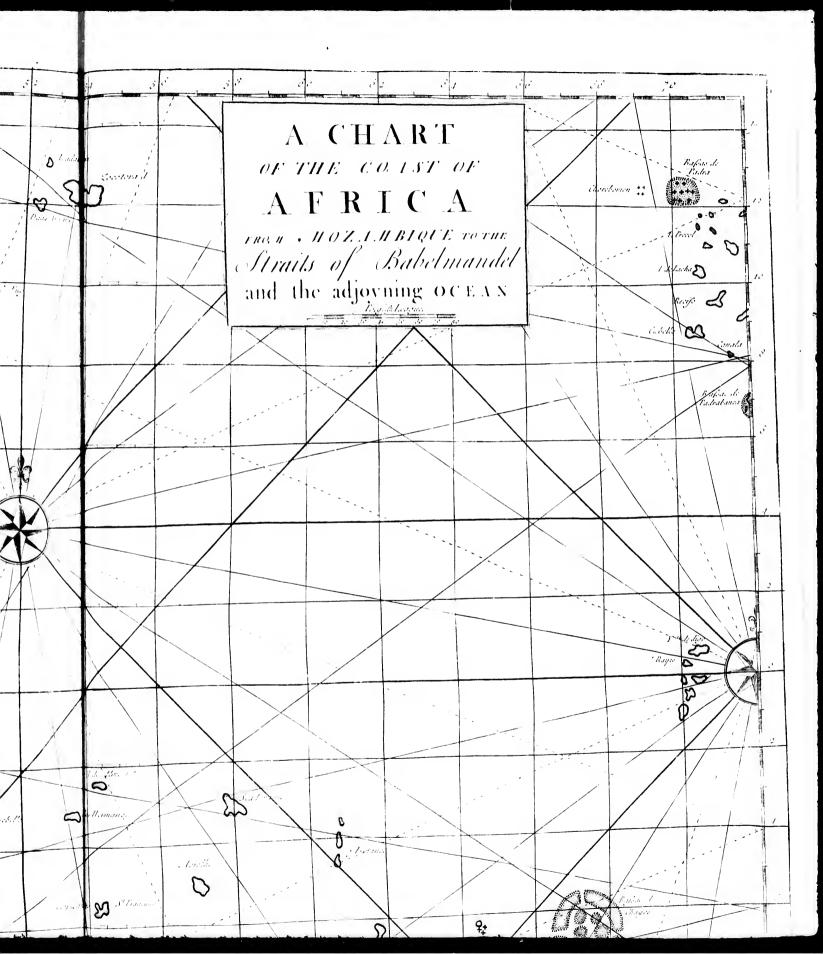
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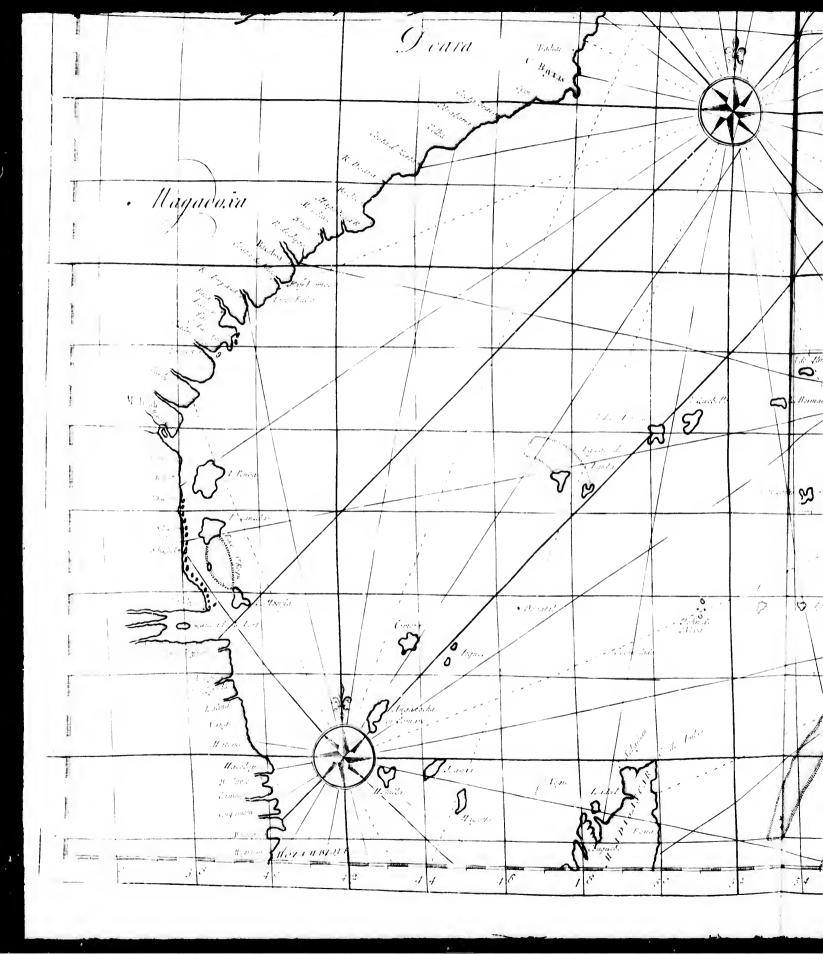


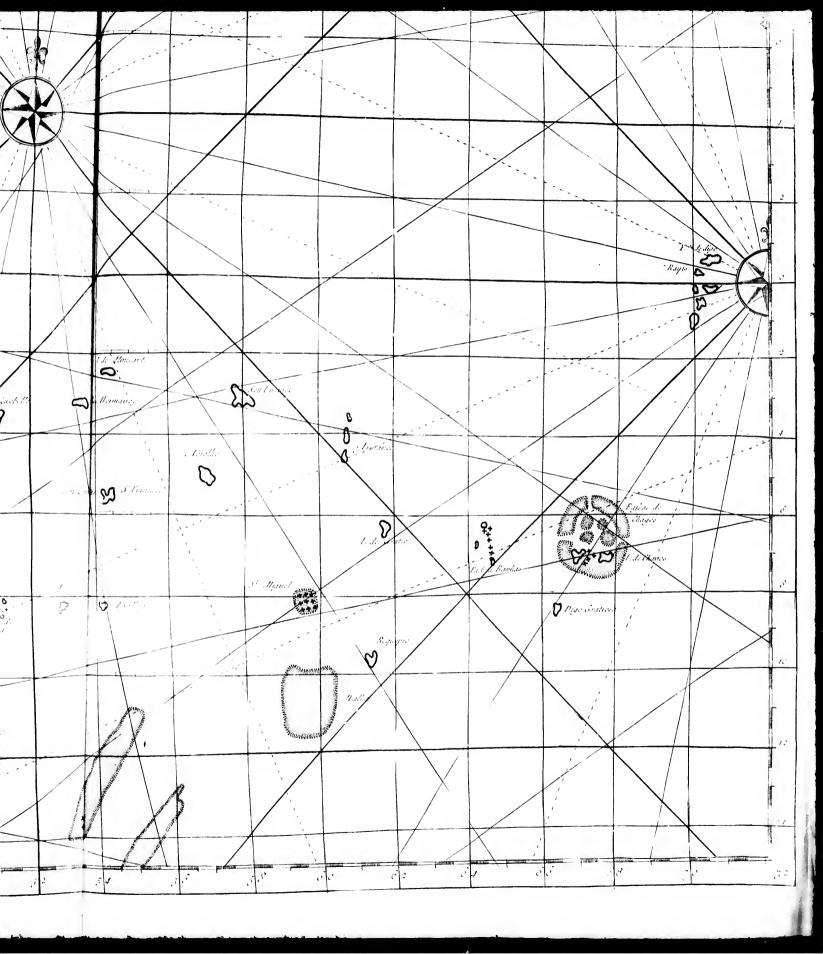


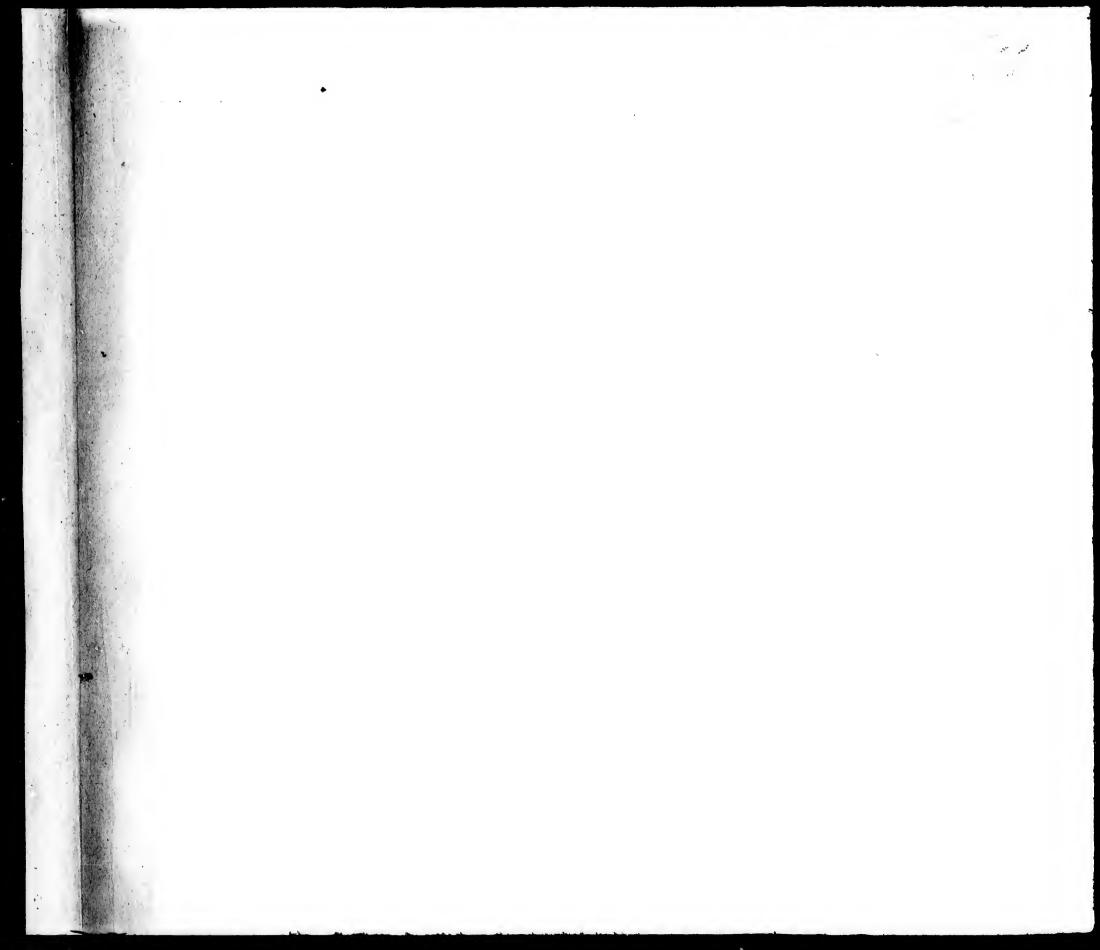


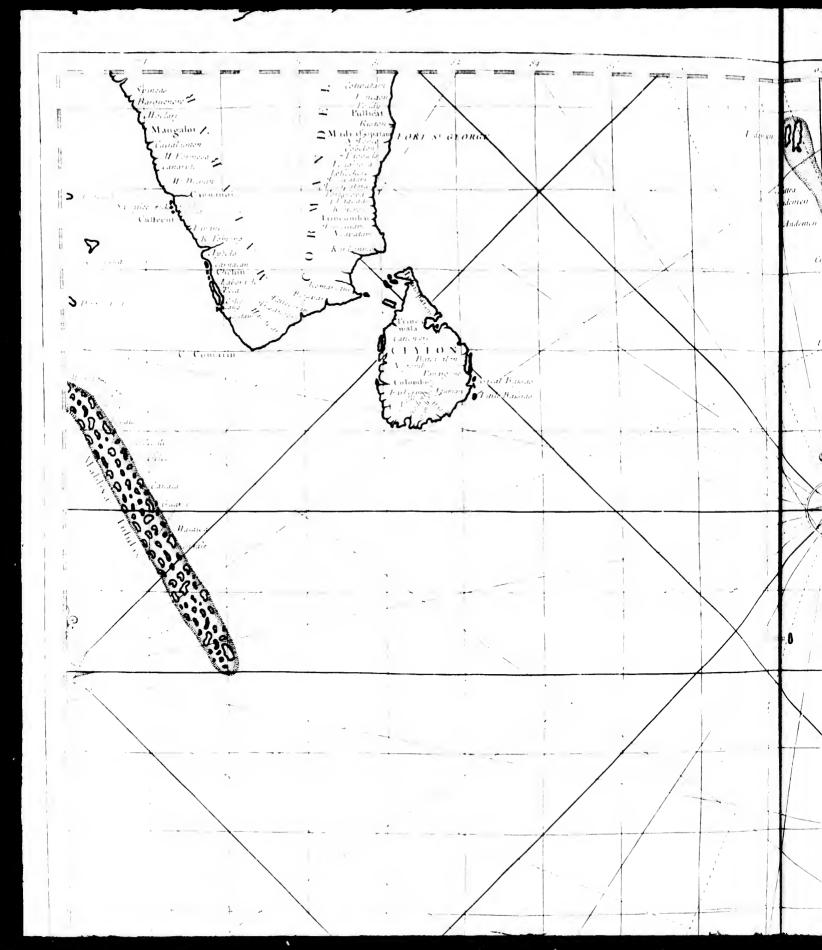


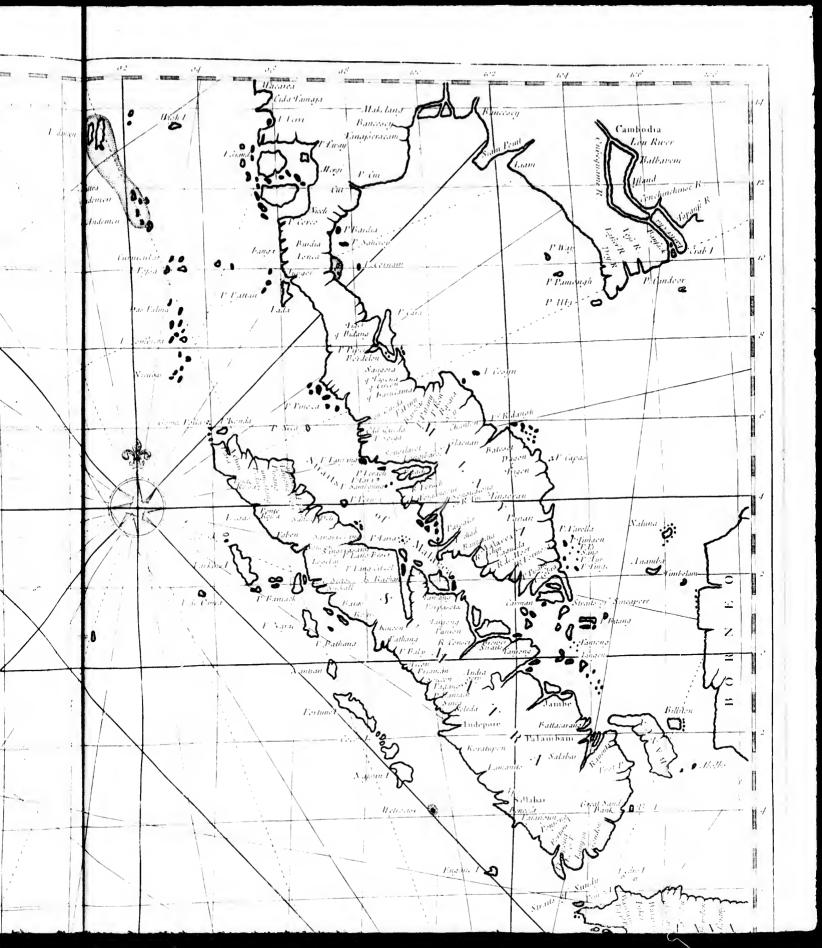


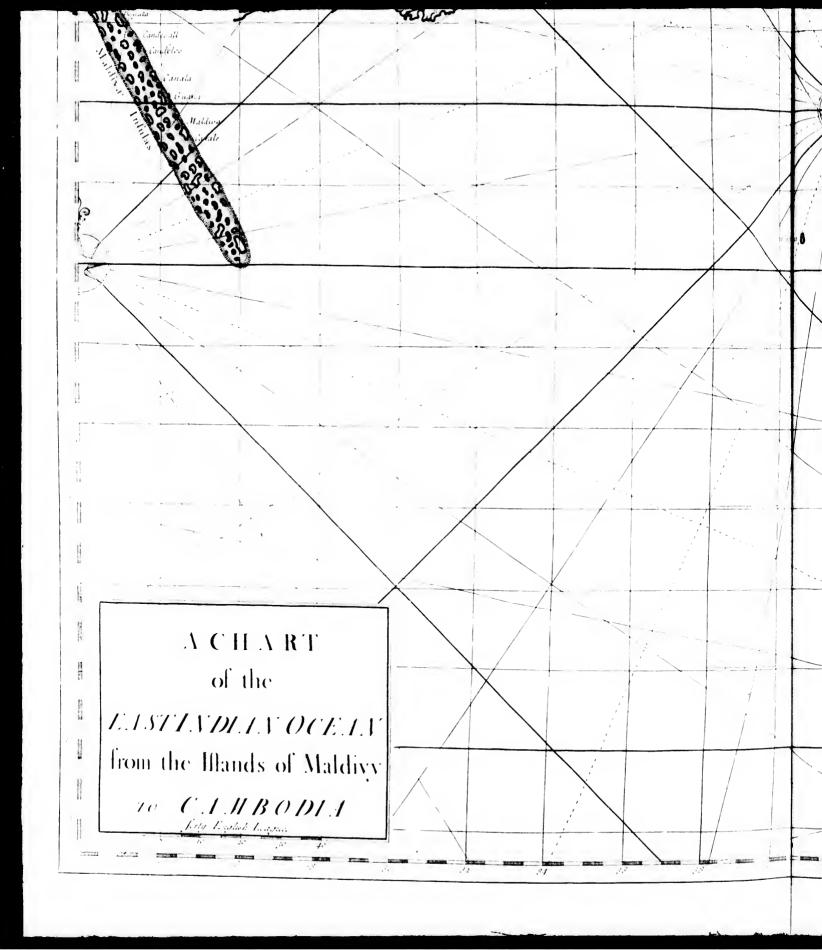


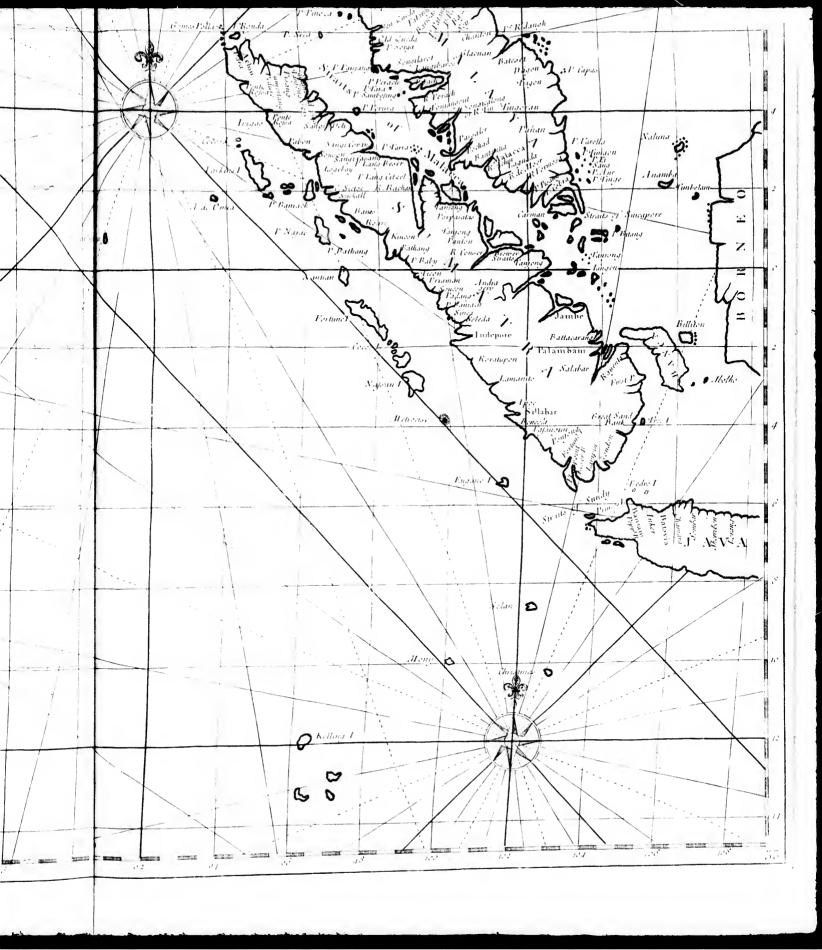










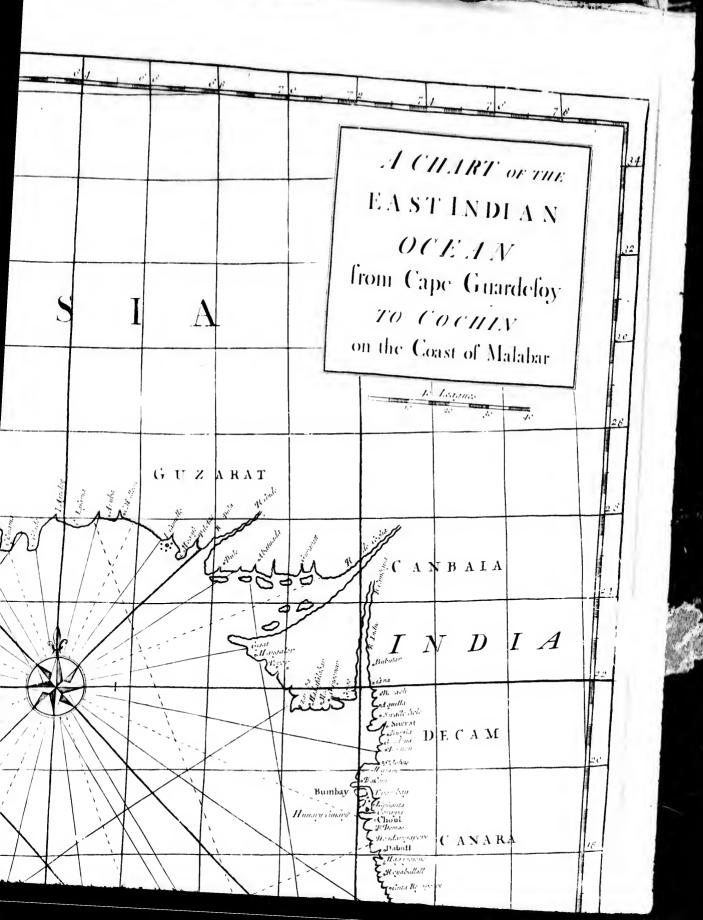


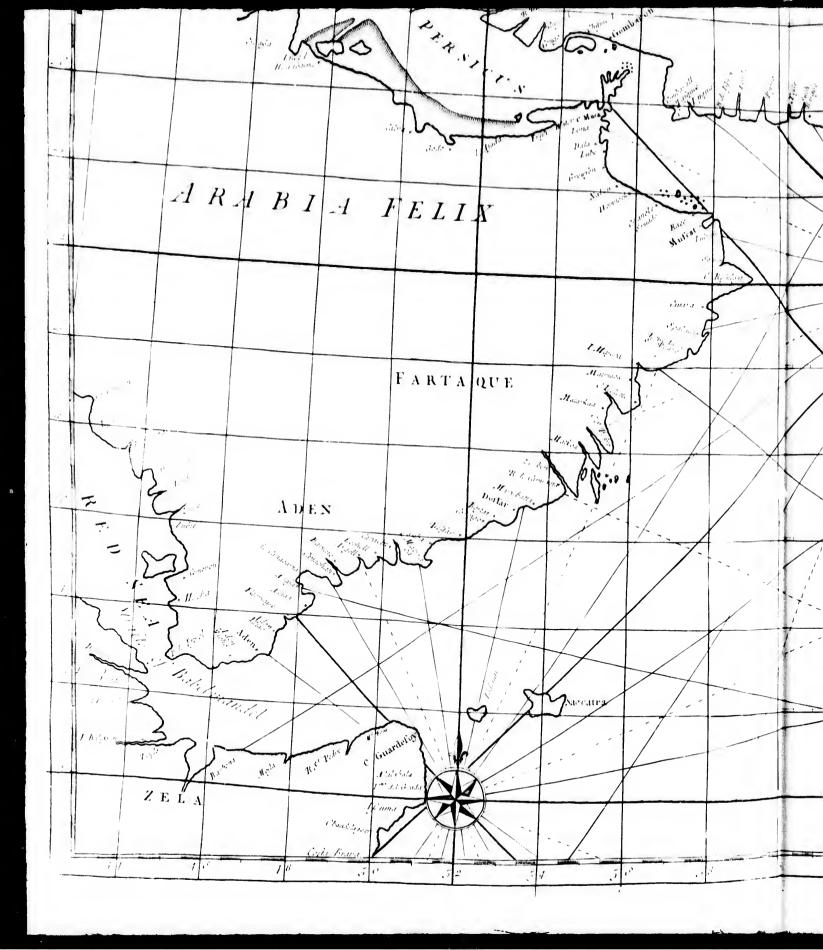


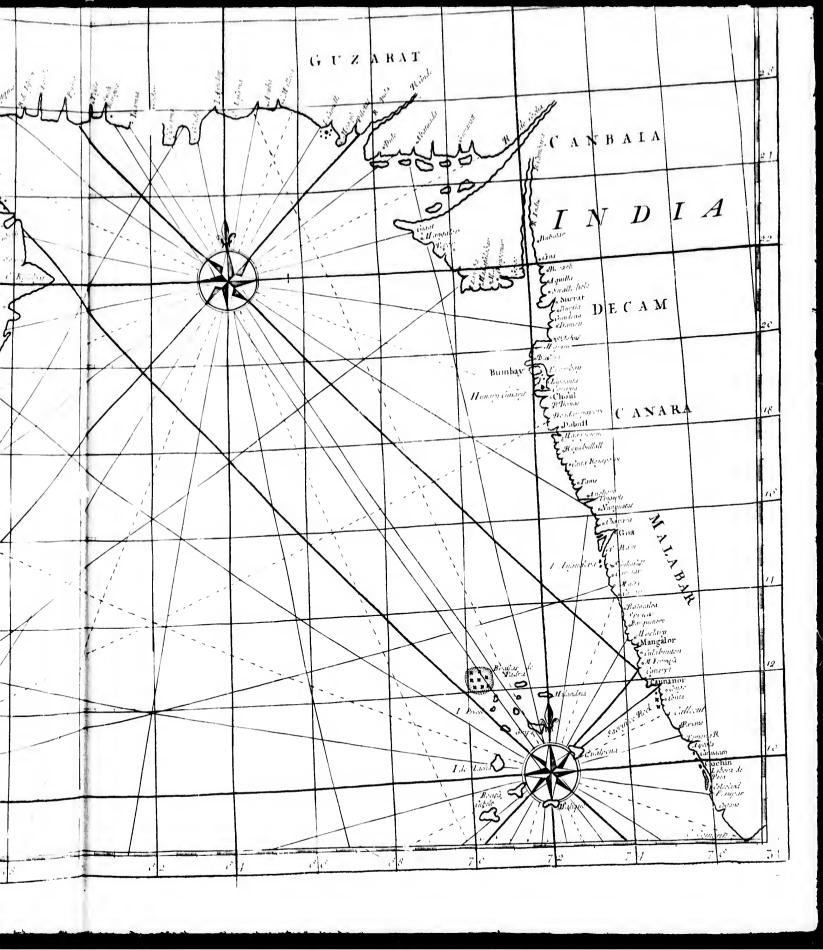
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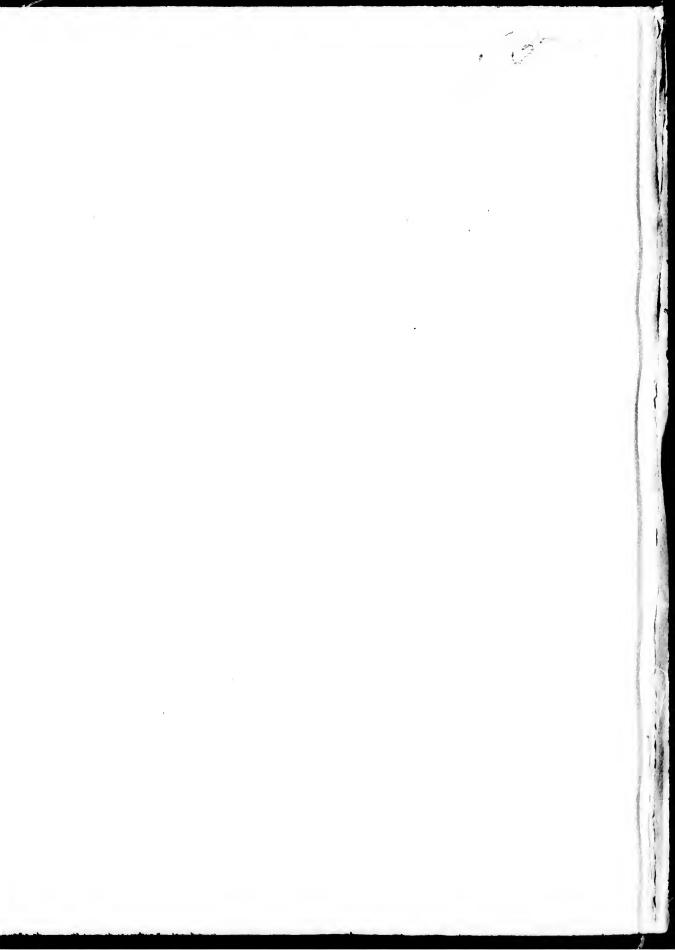
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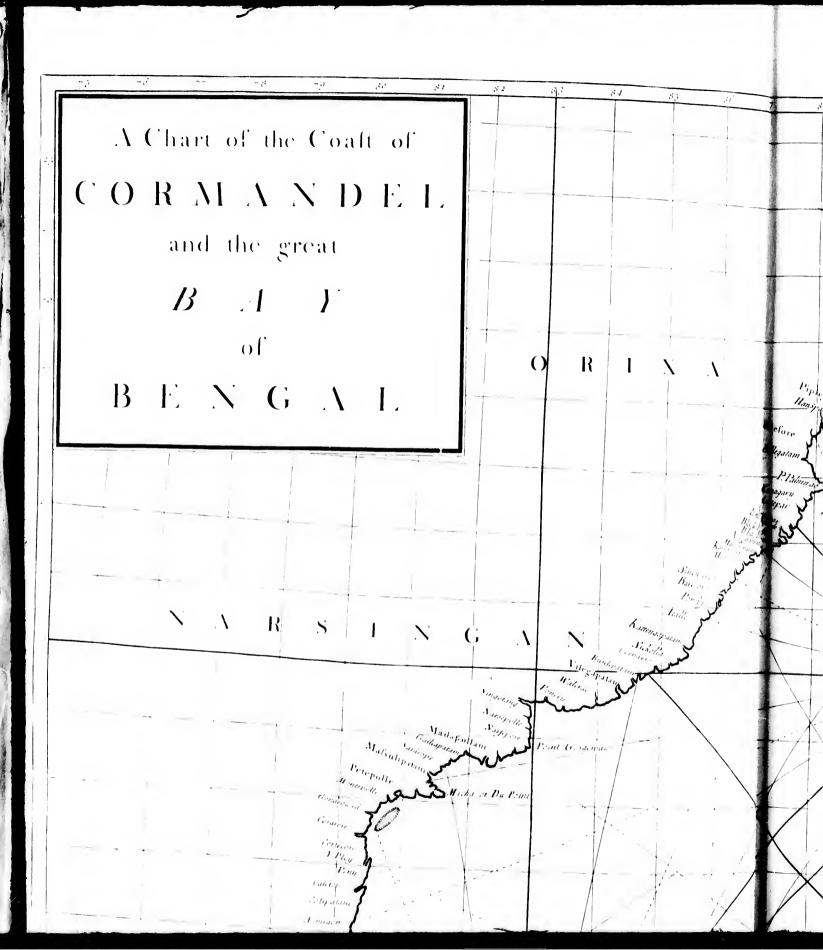


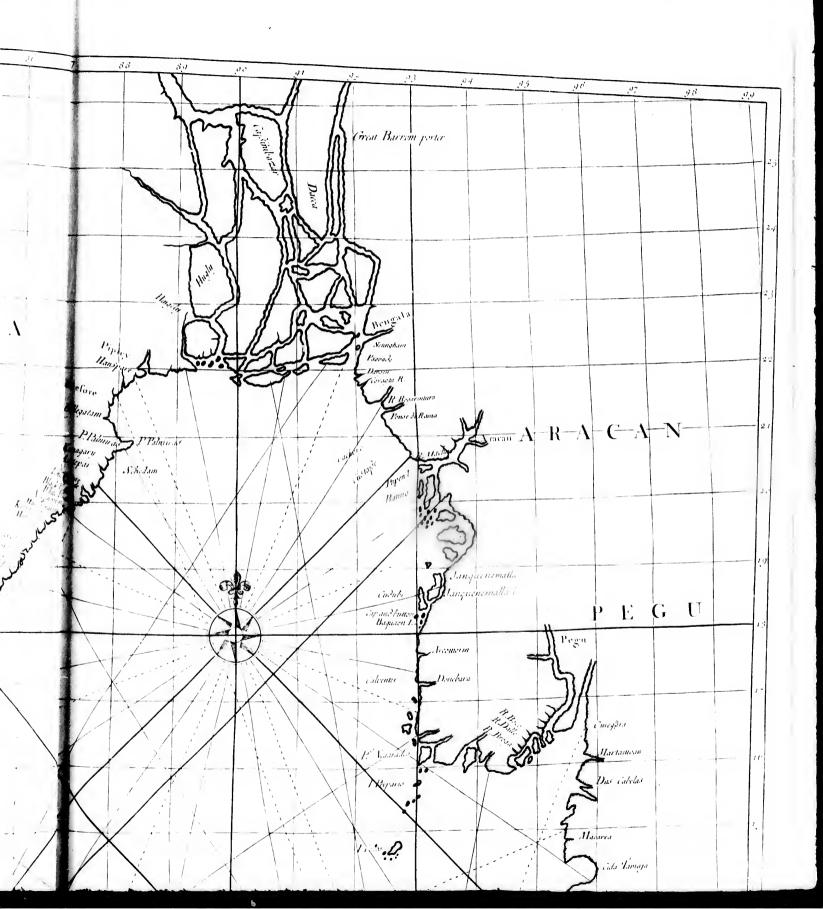


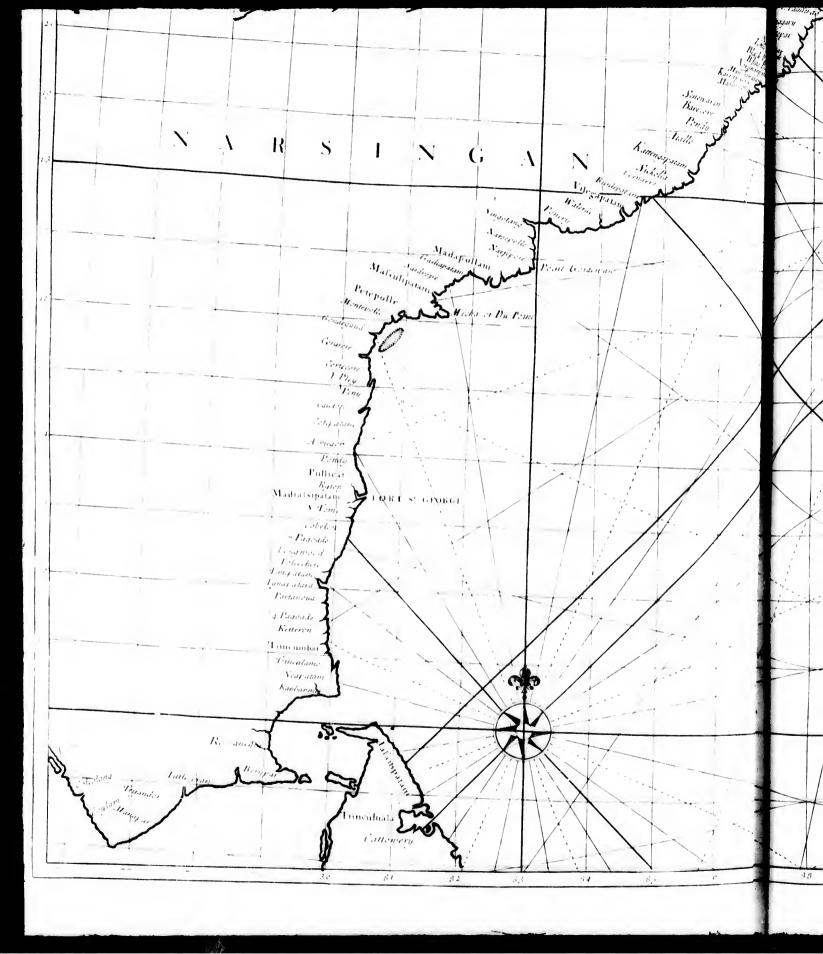


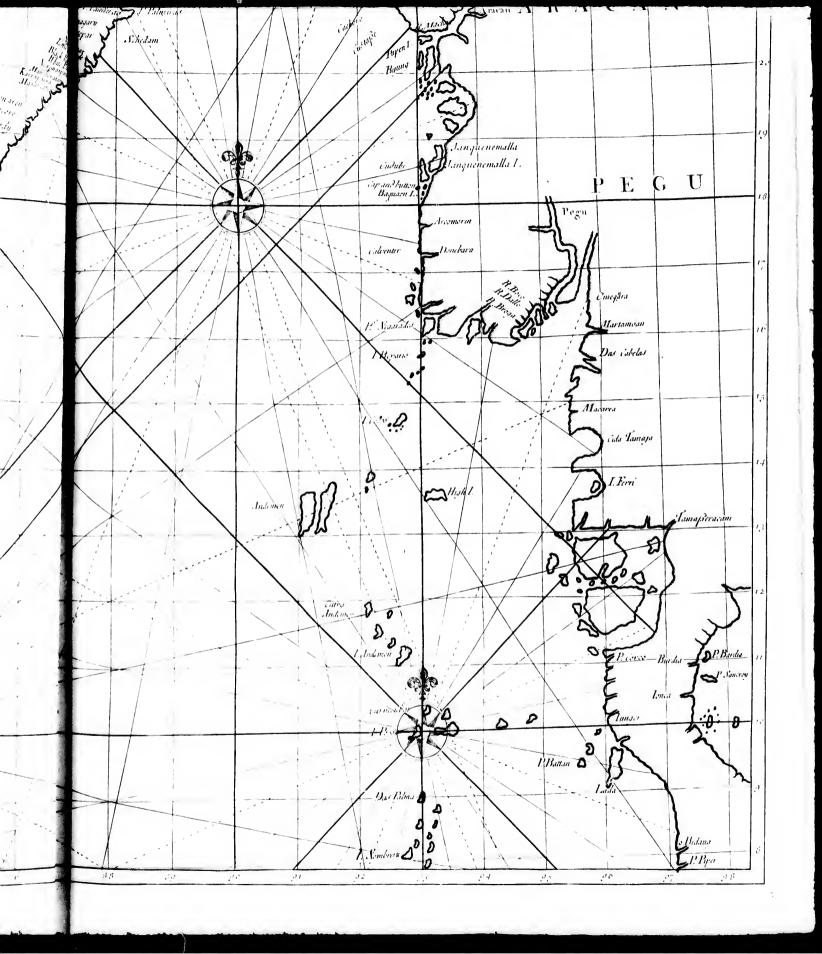






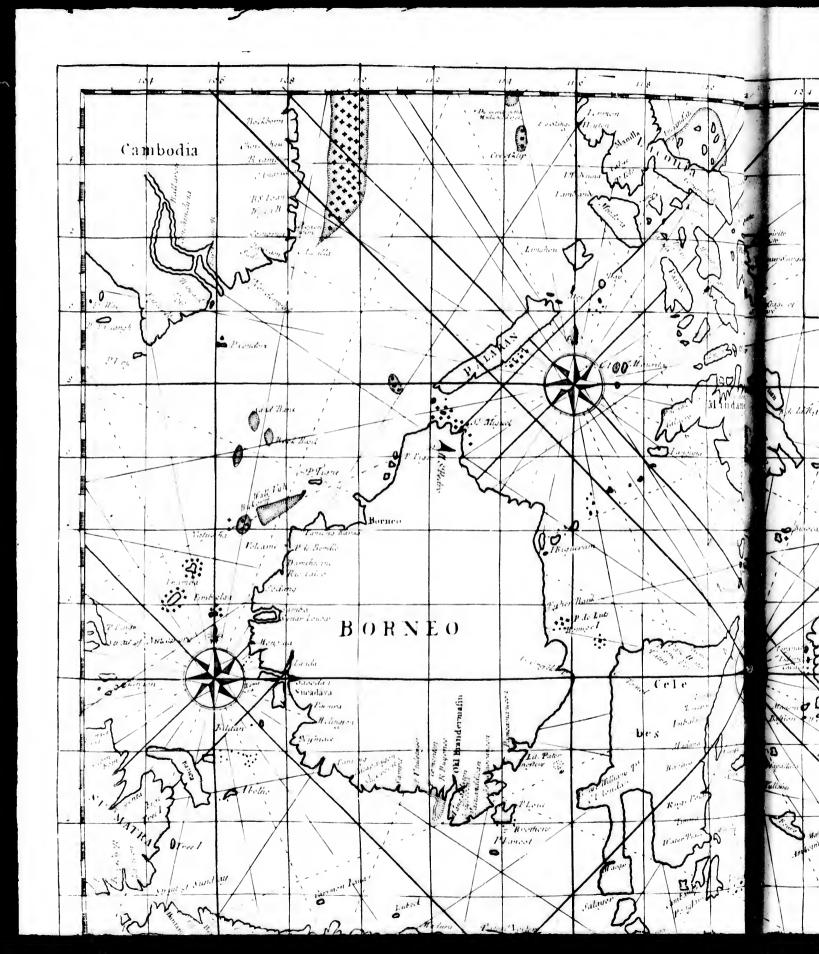


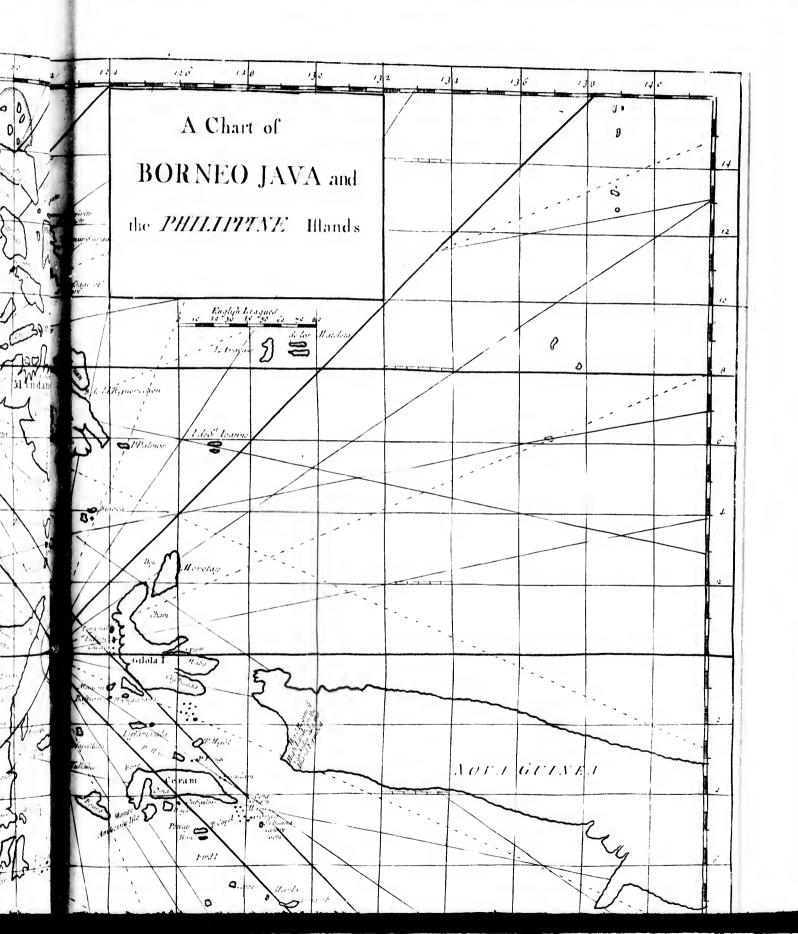


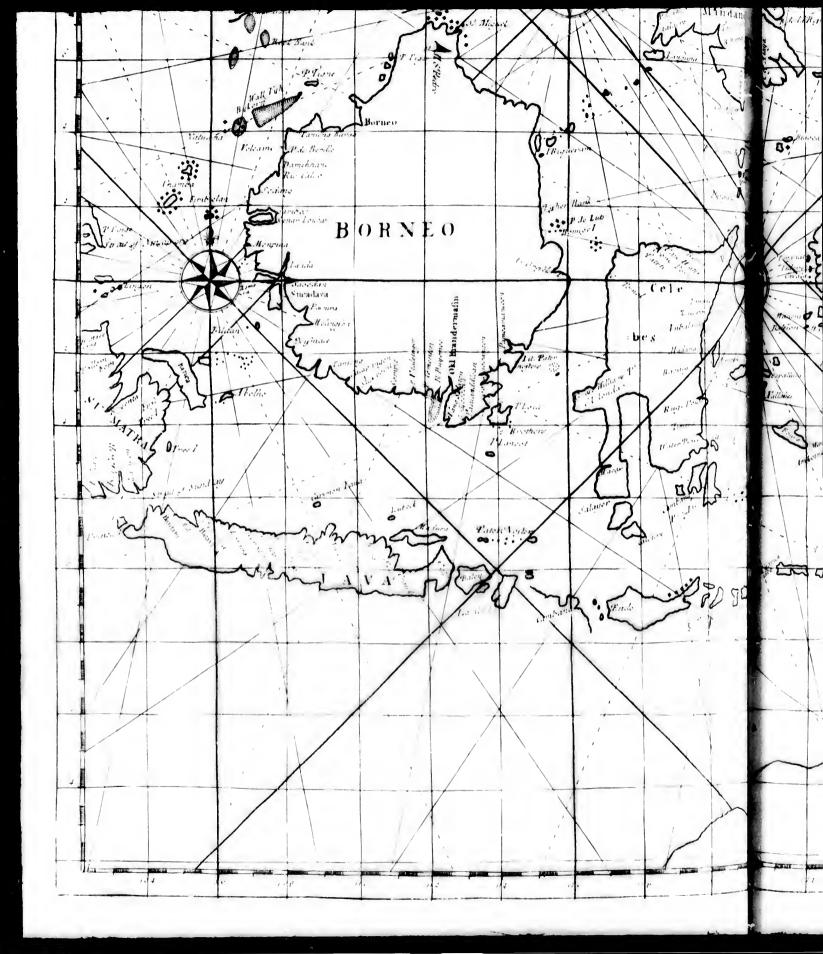


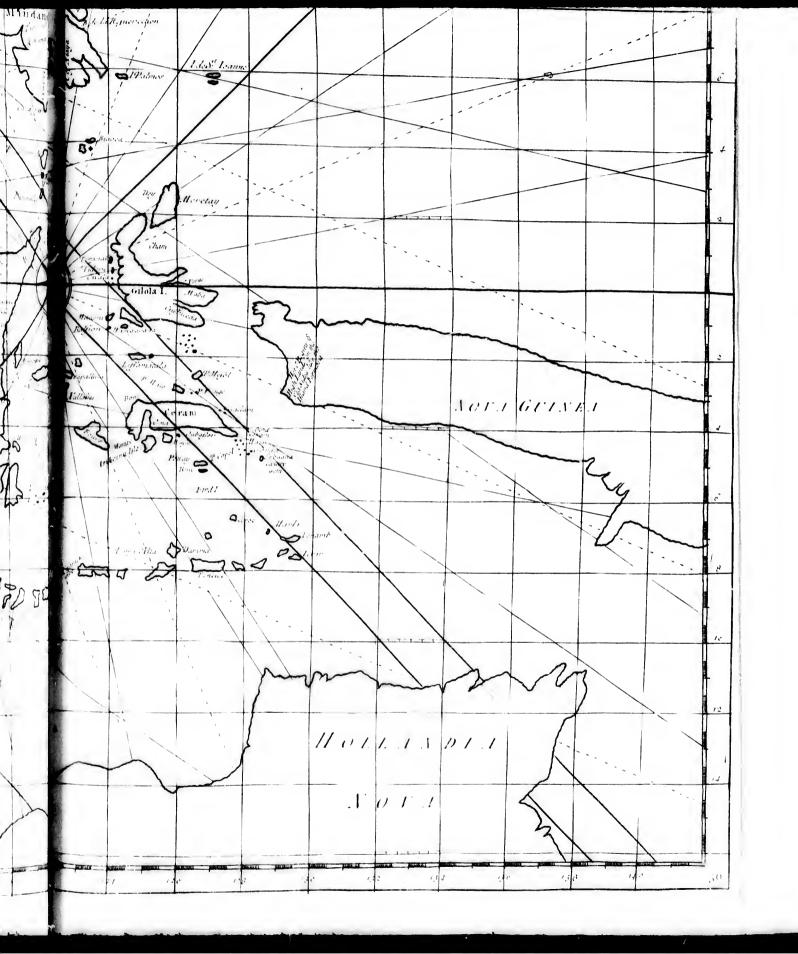


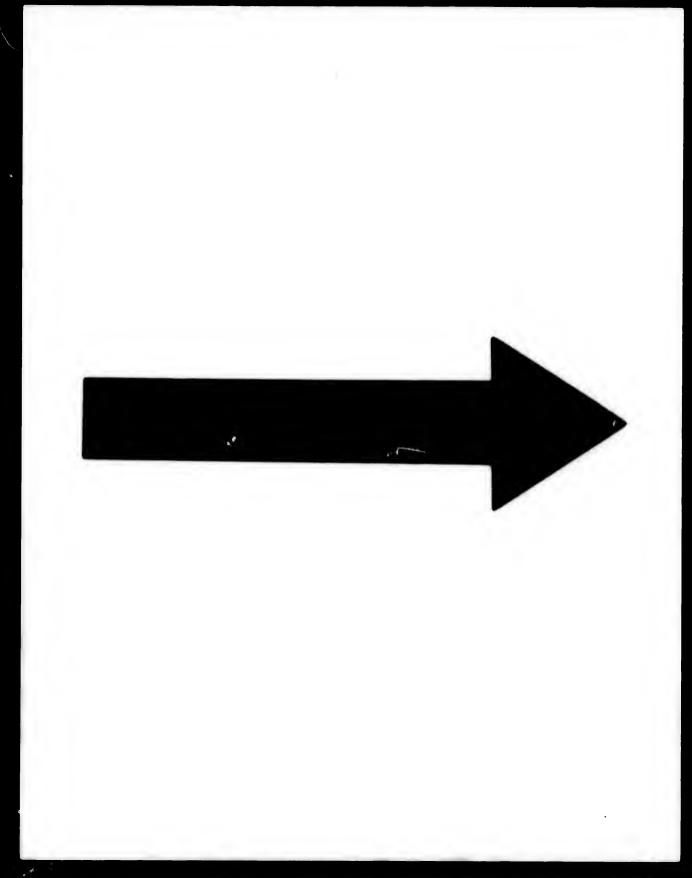












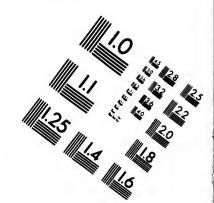
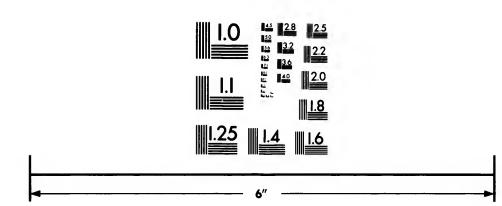


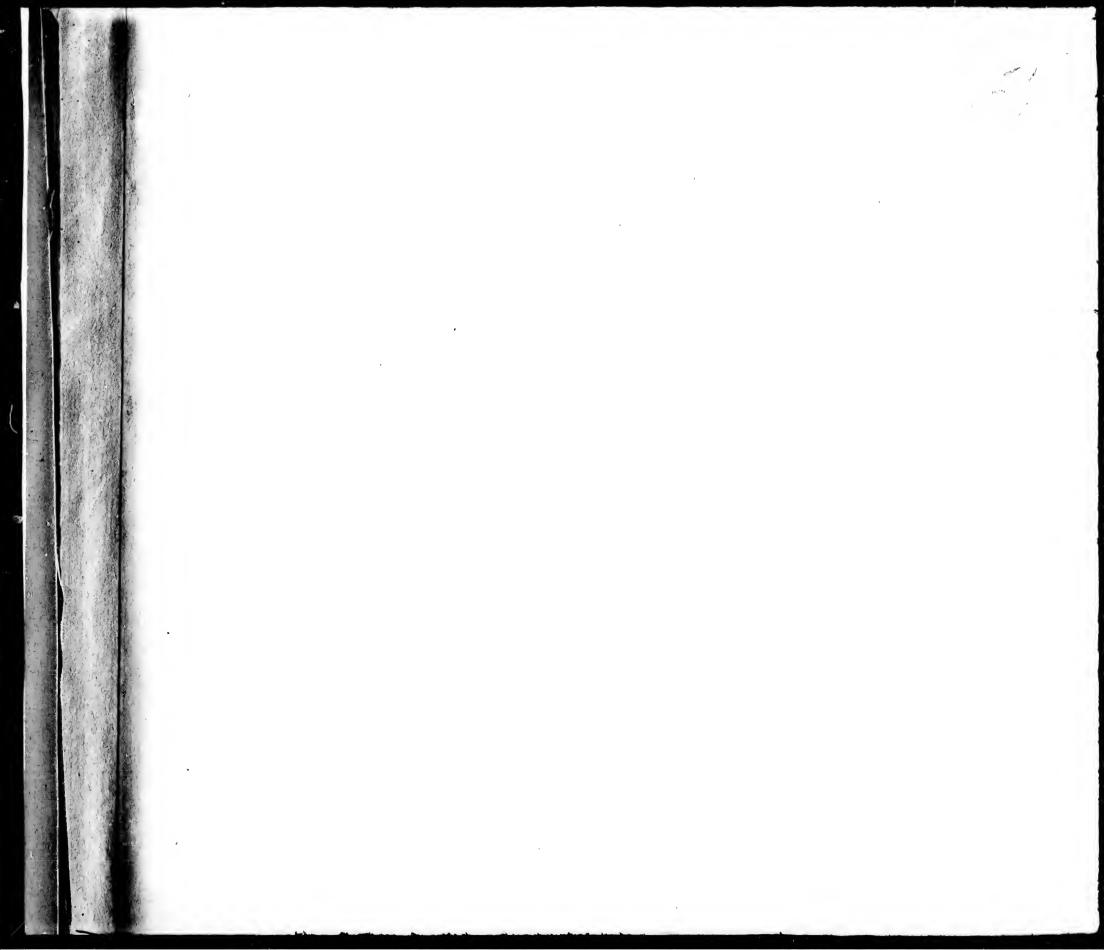
IMAGE EVALUATION TEST TARGET (MT-3)

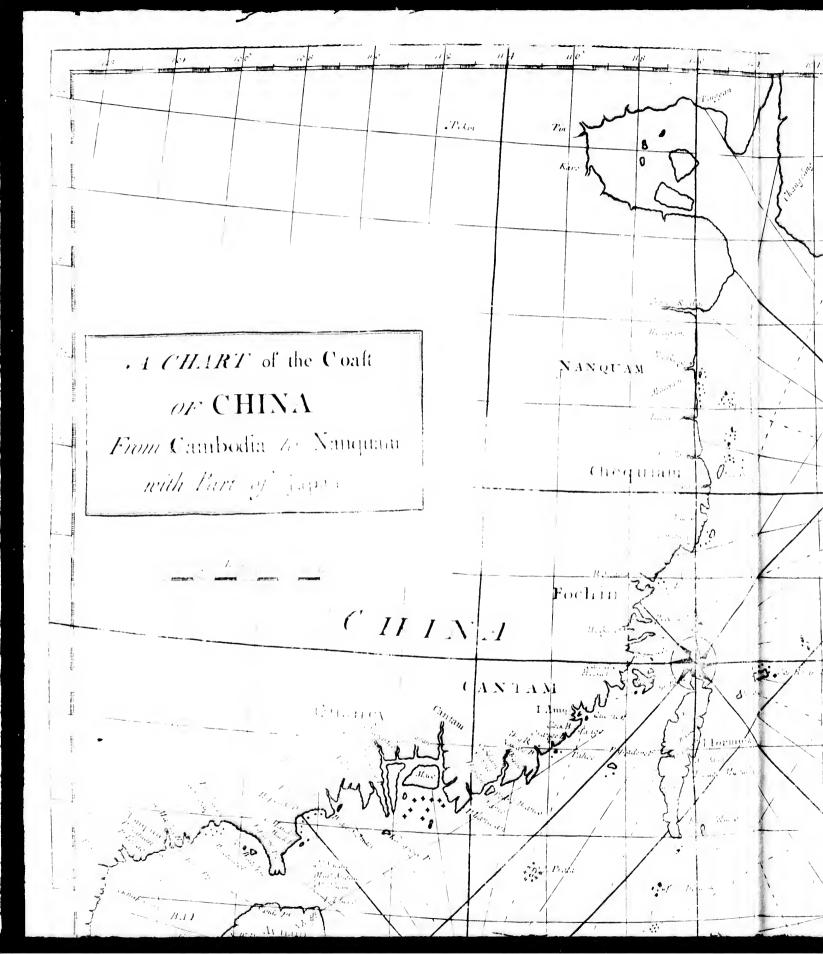


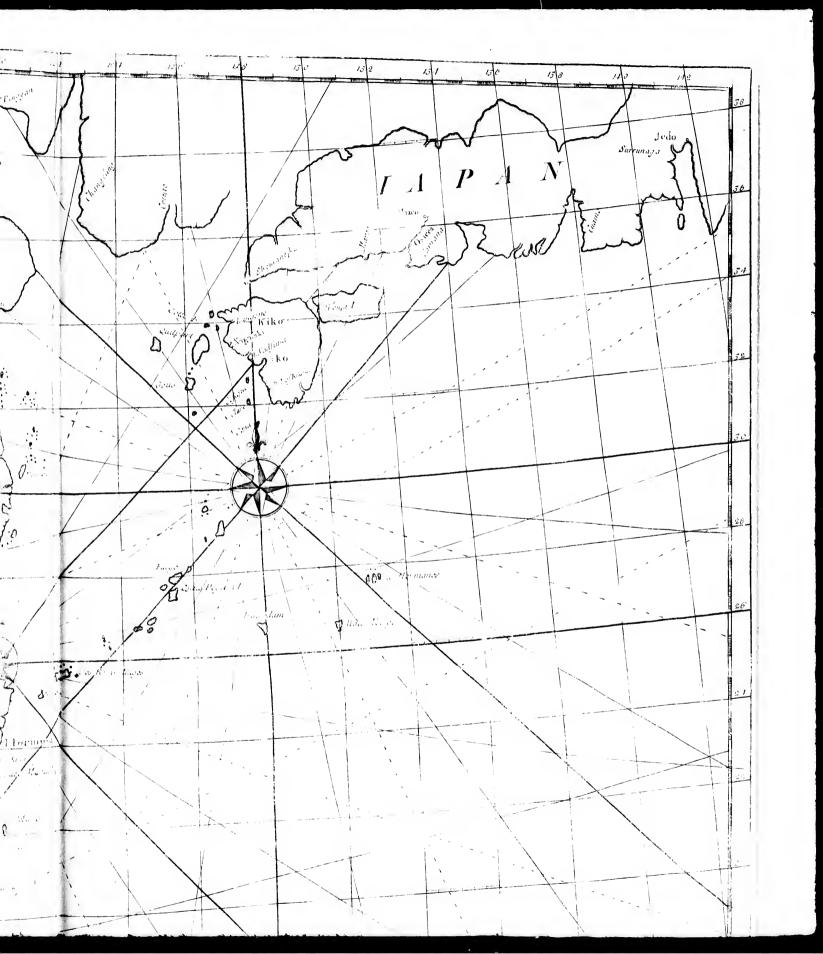
Photographic Sciences Corporation

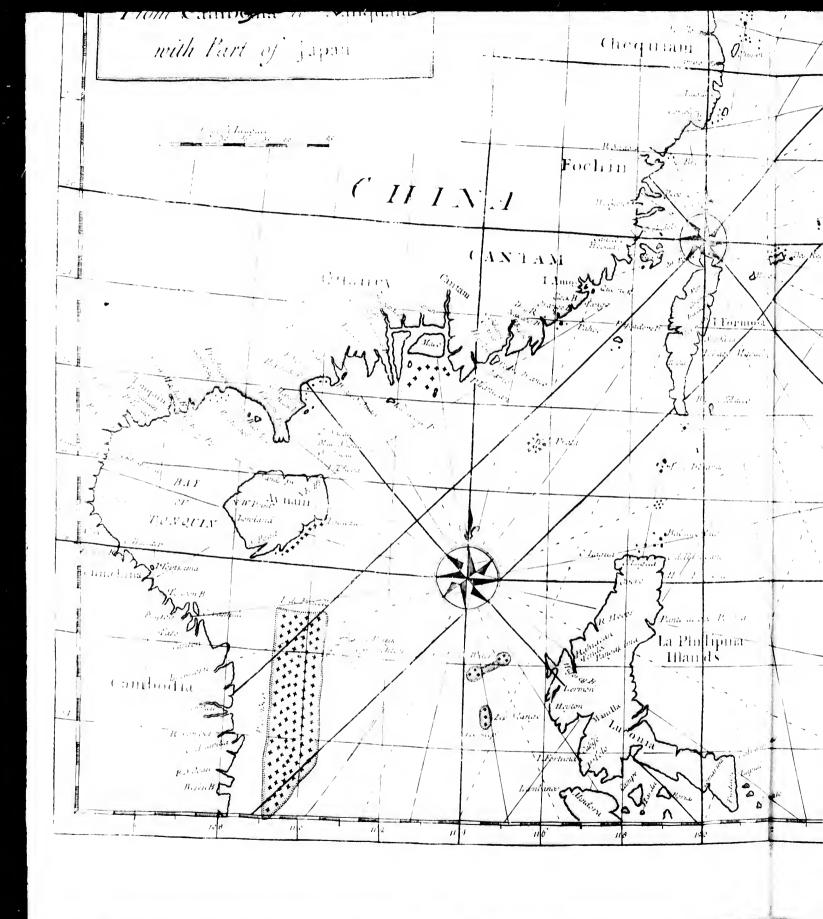
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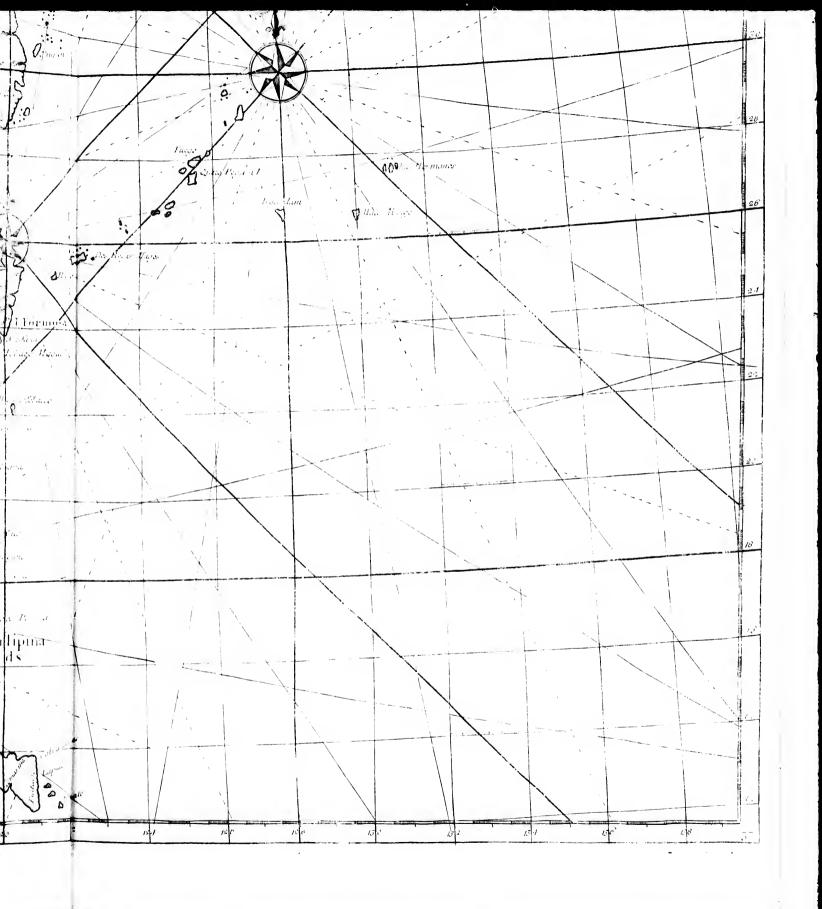
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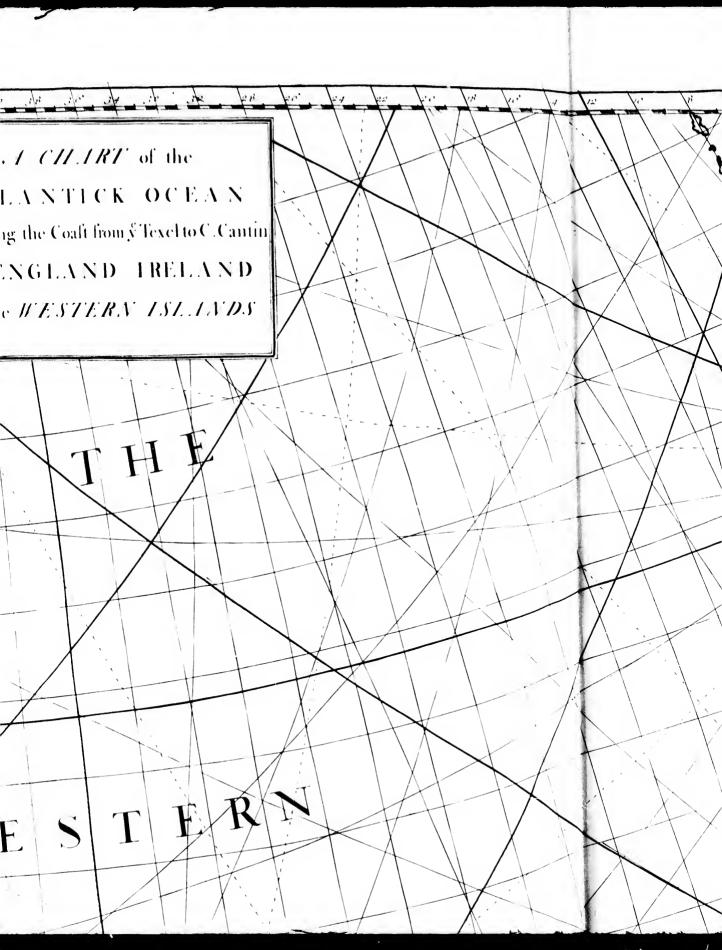


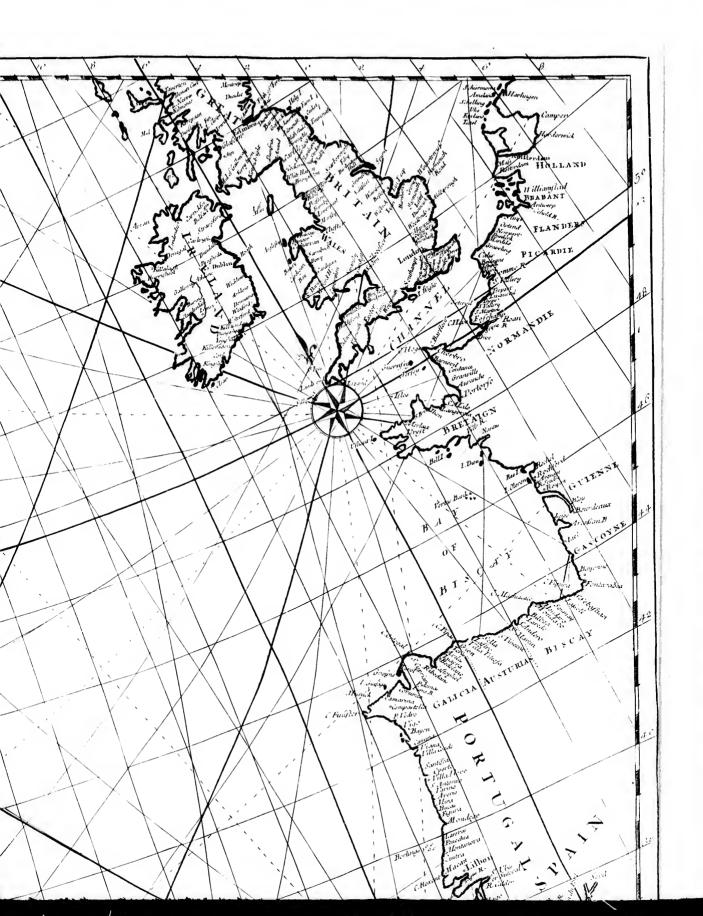


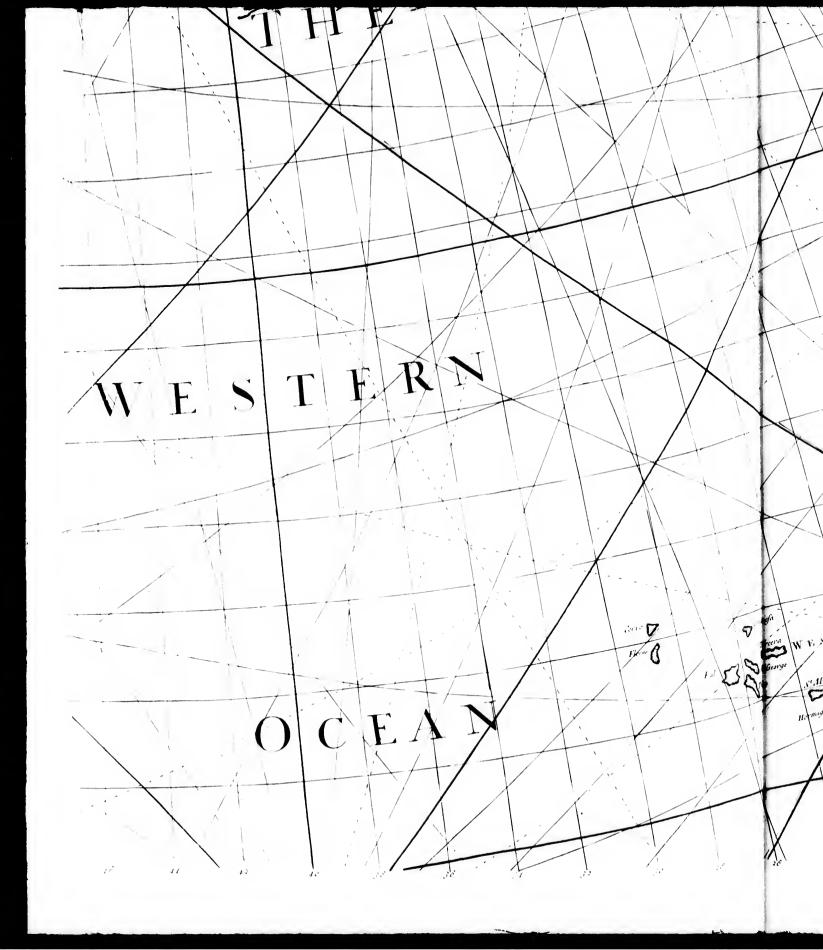


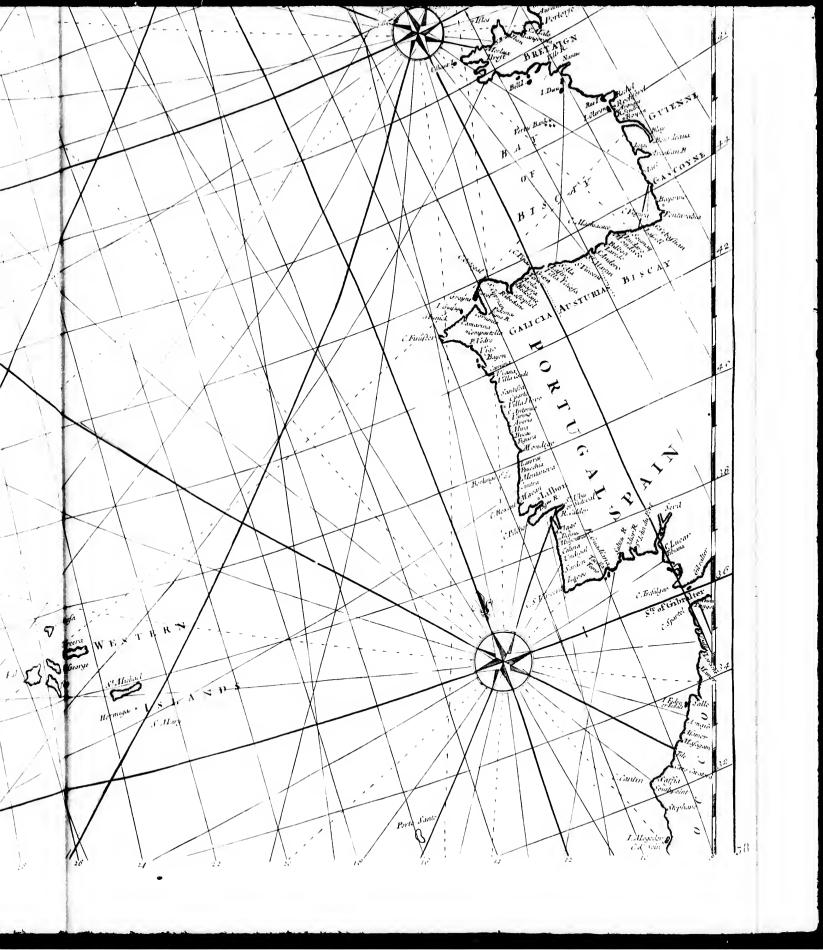


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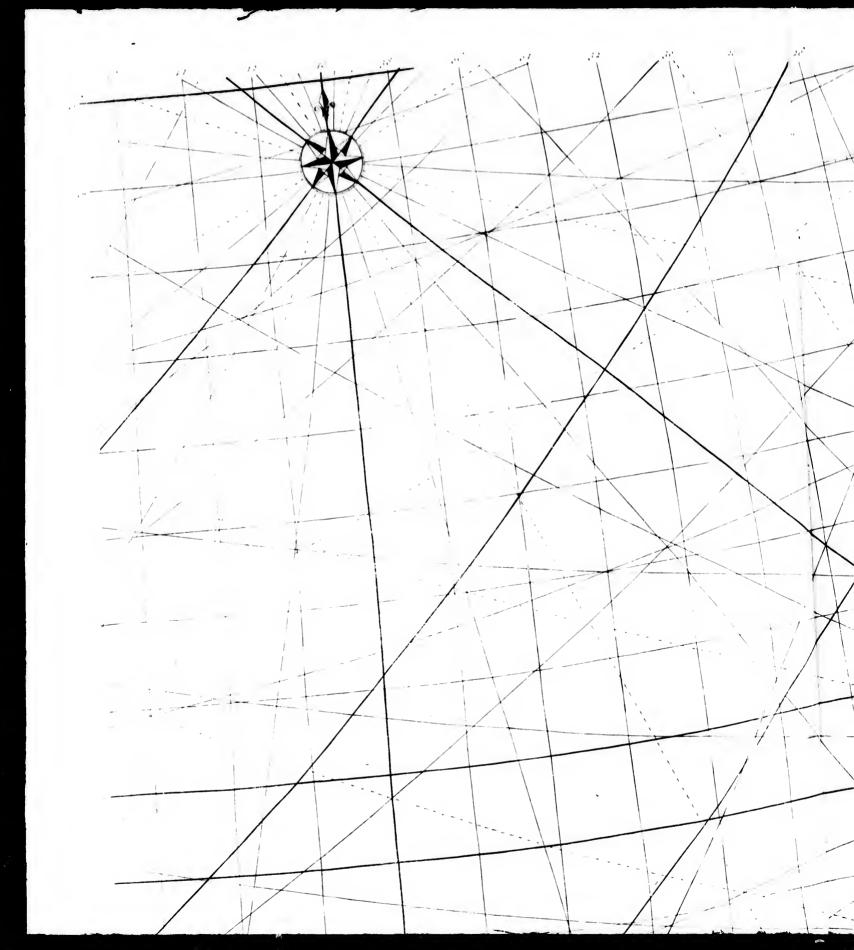


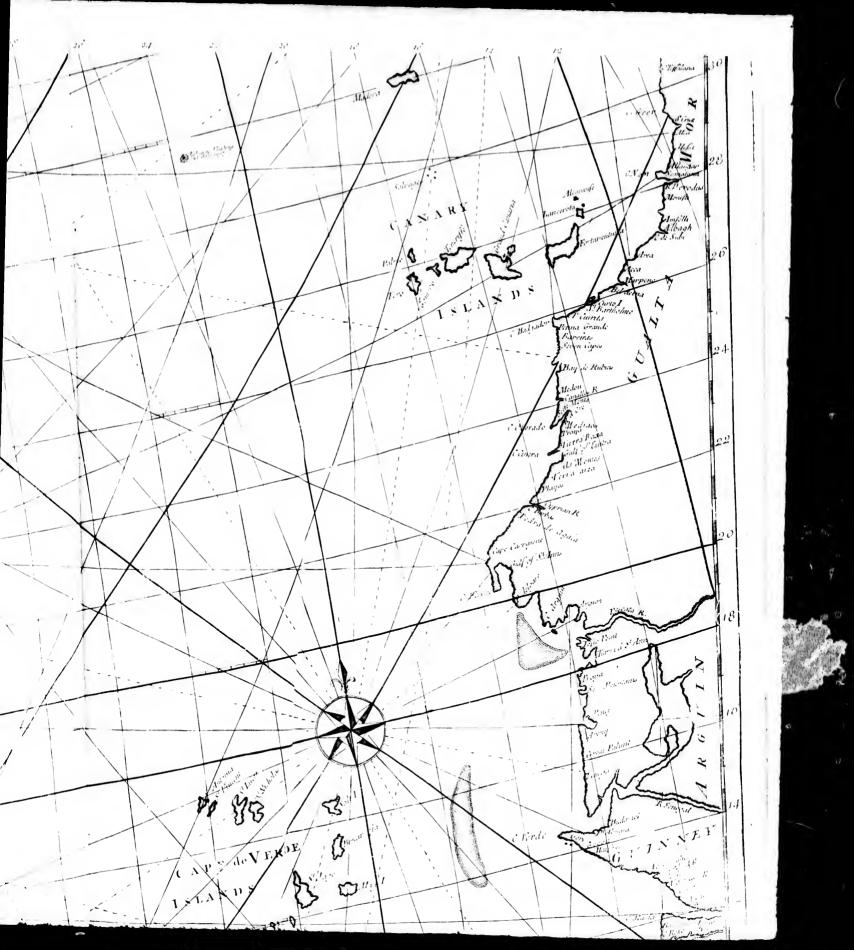


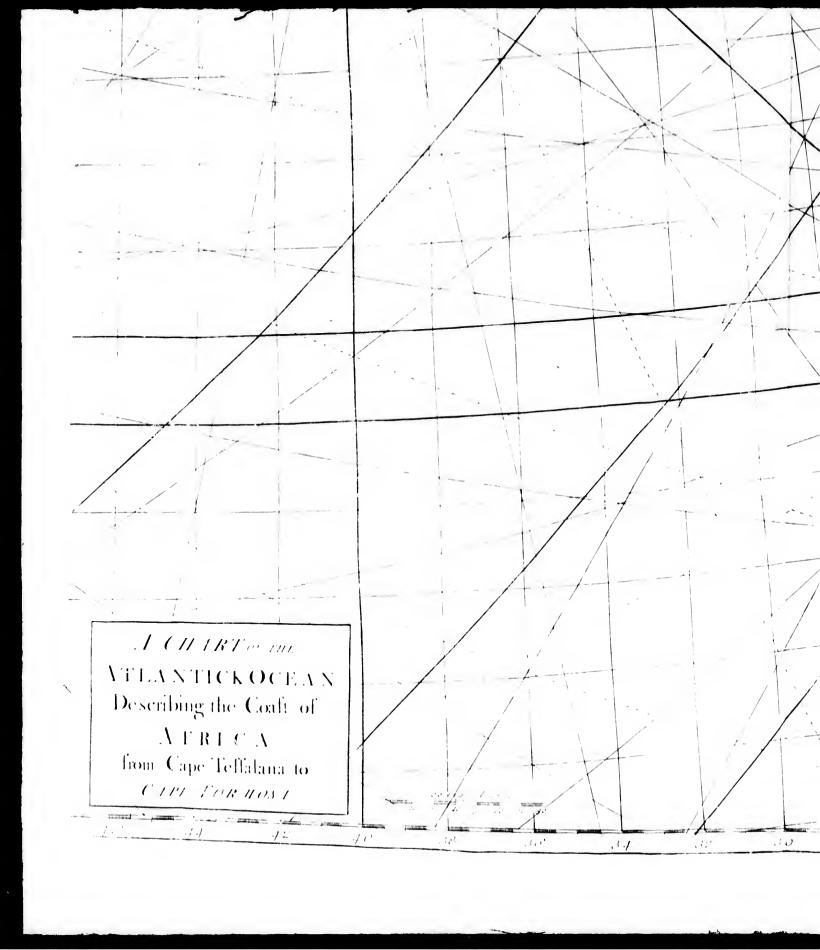


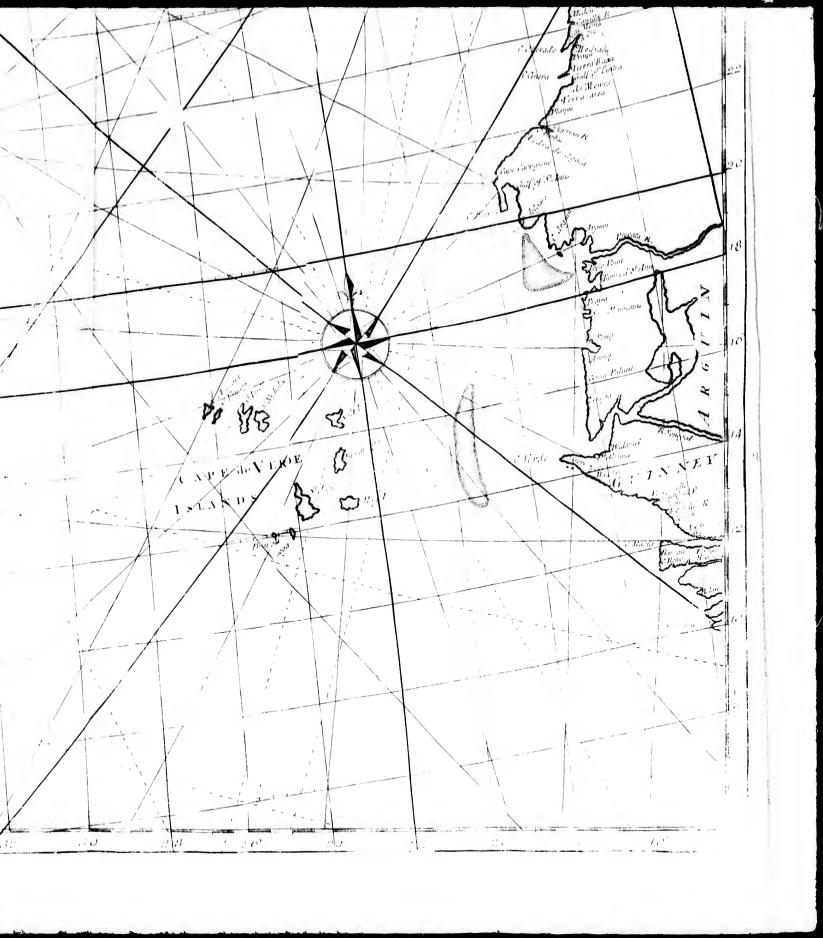


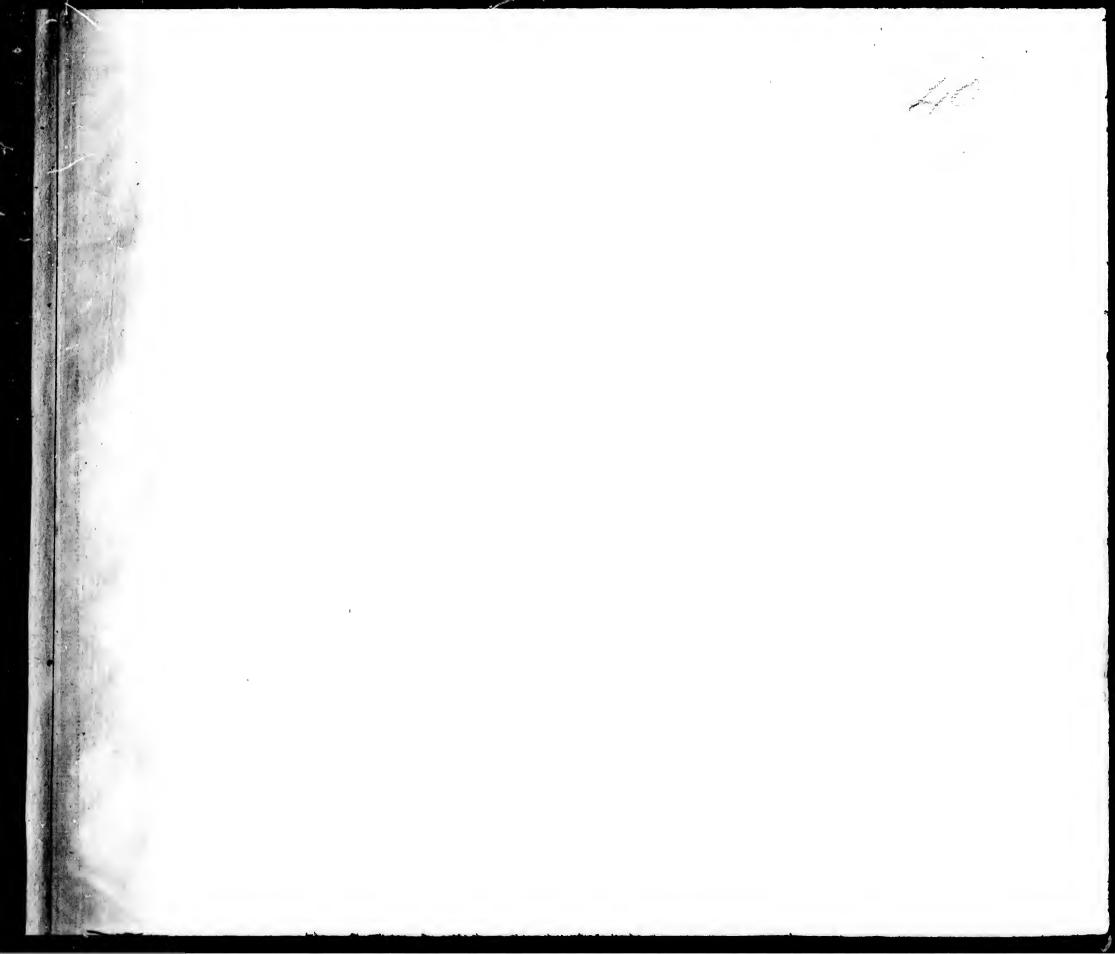




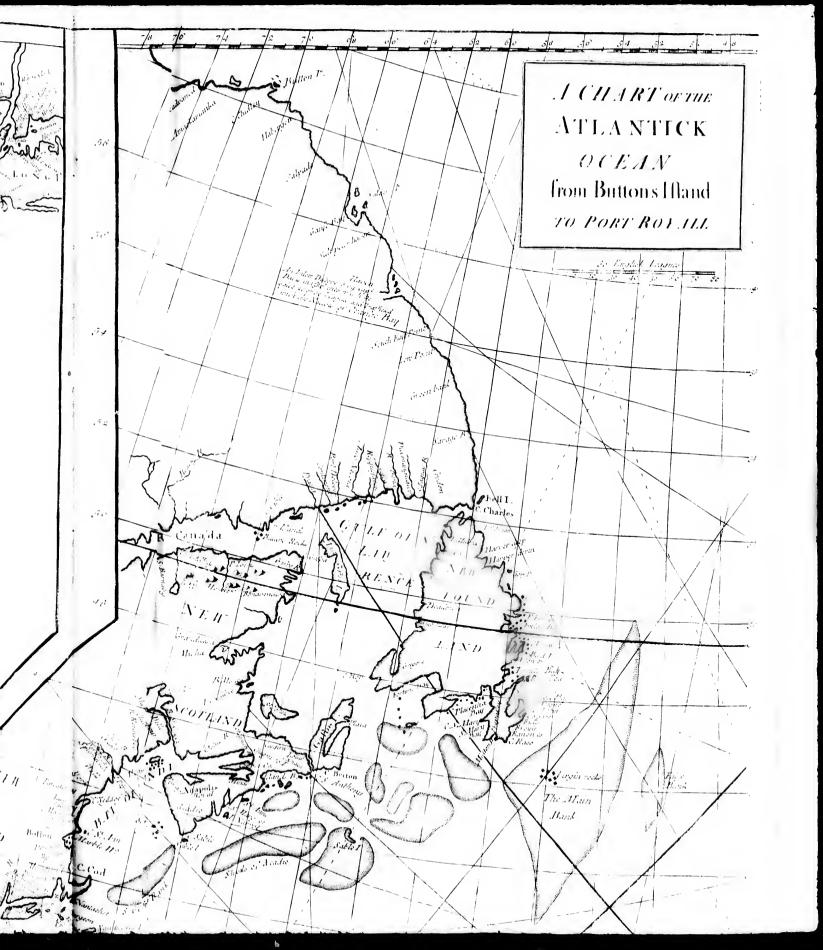




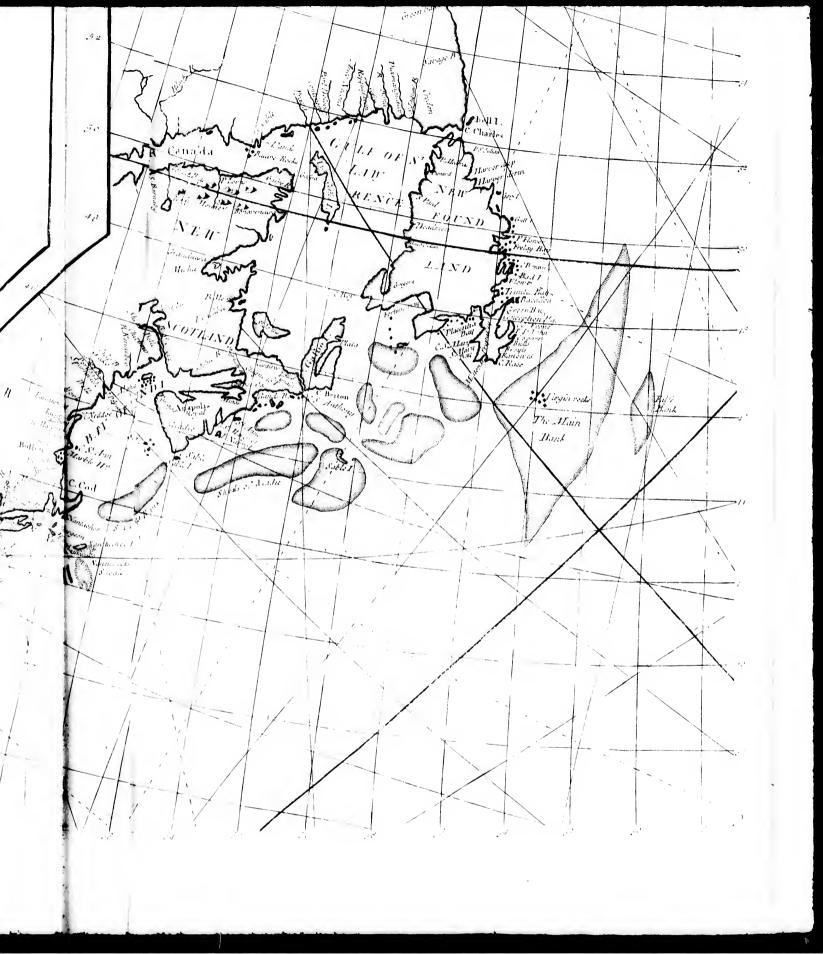


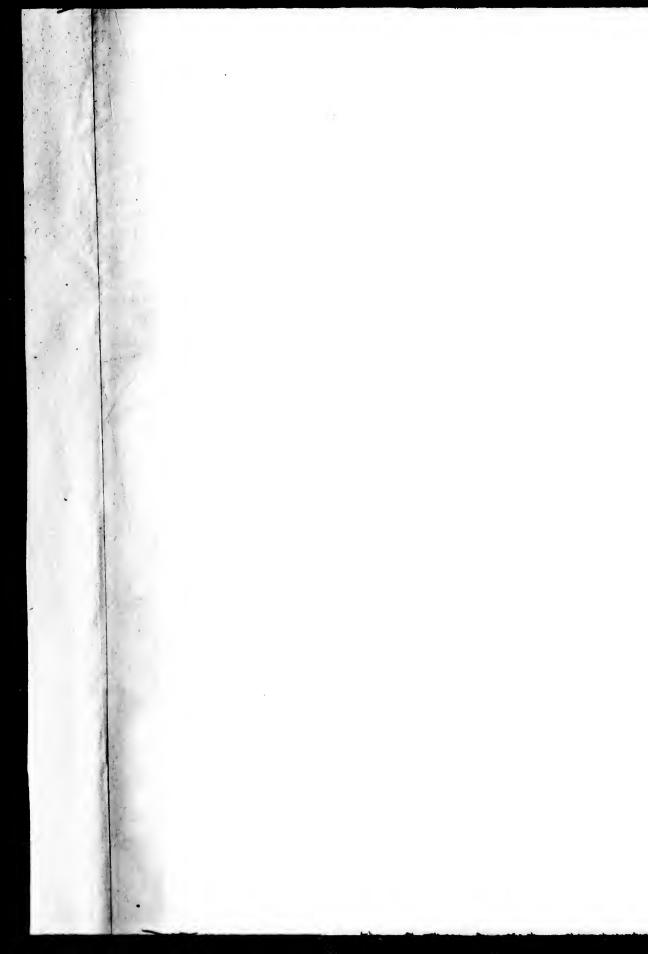


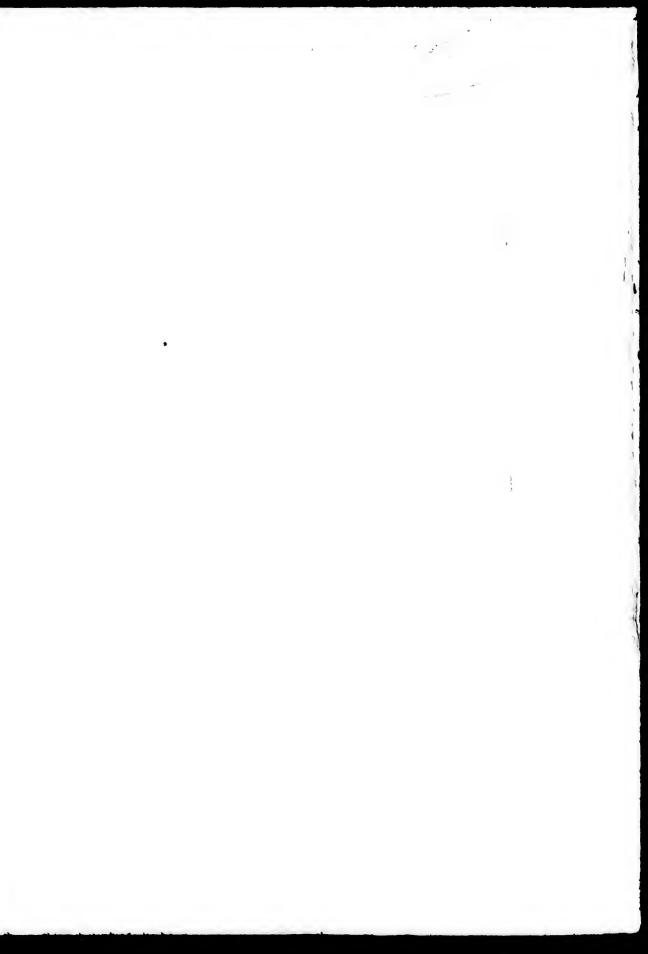




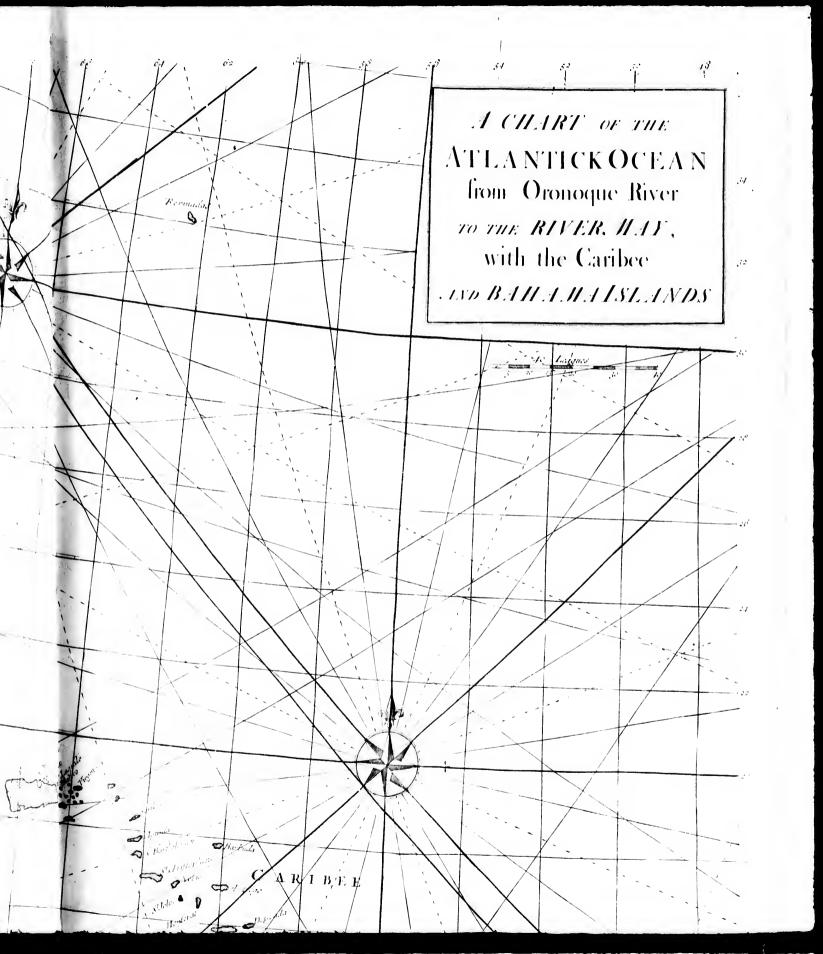




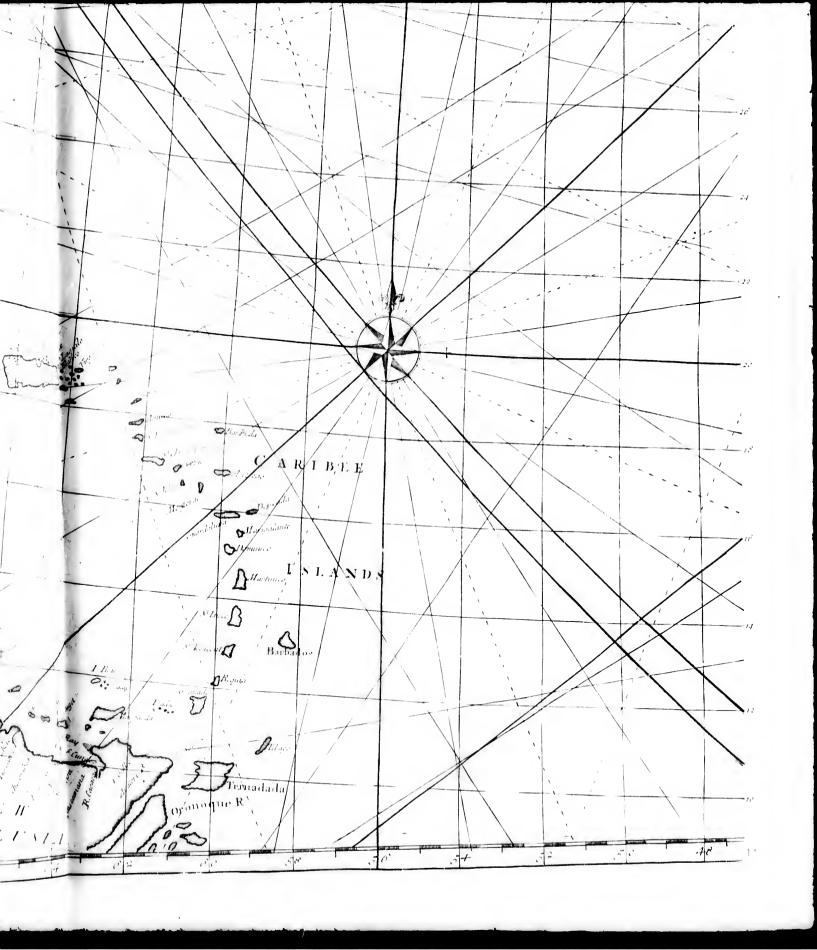


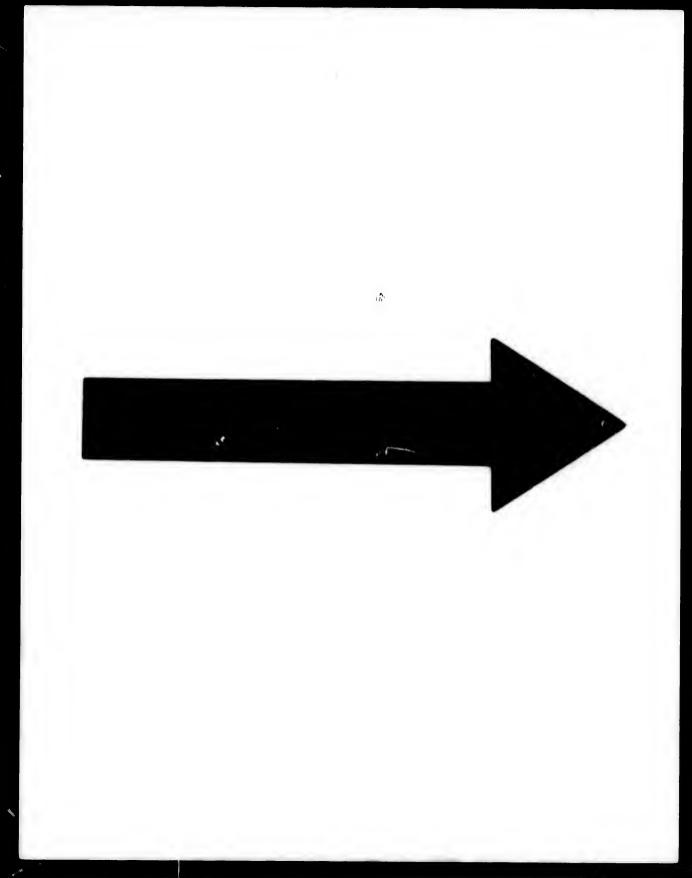












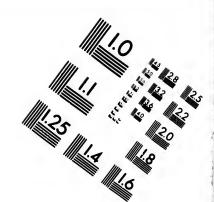
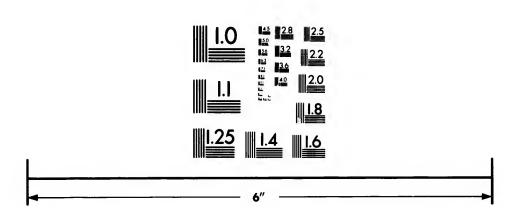


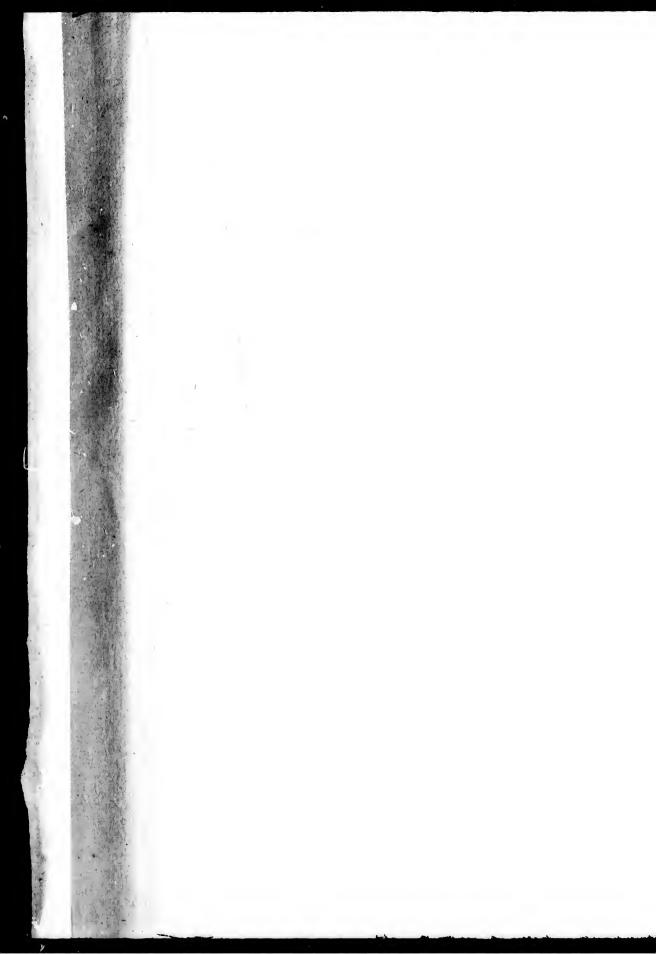
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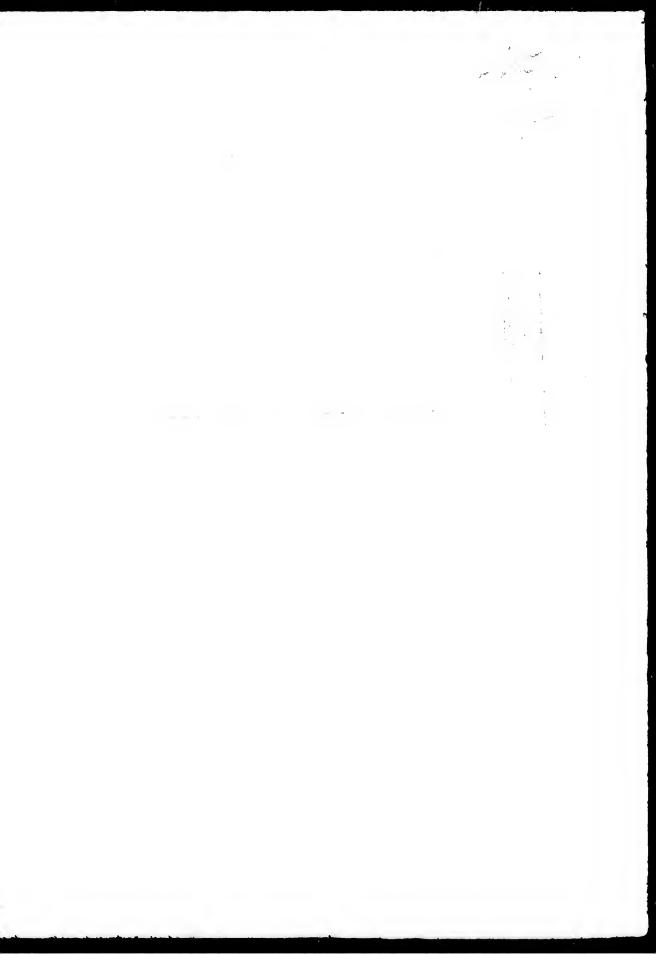


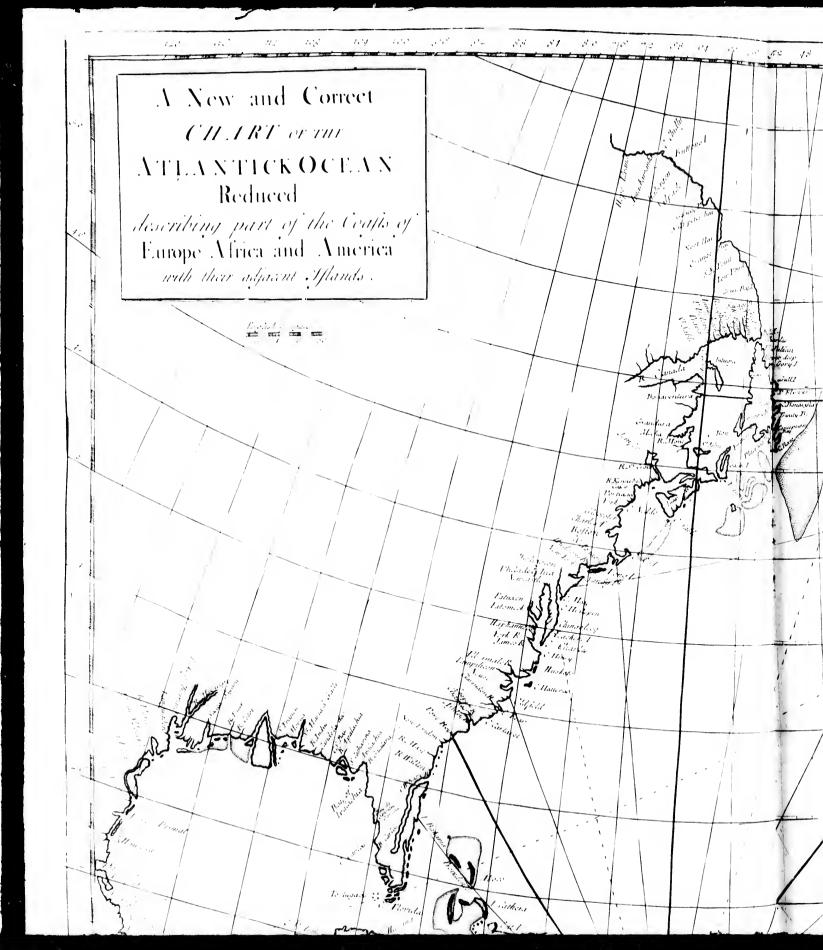
Photographic Sciences Corporation

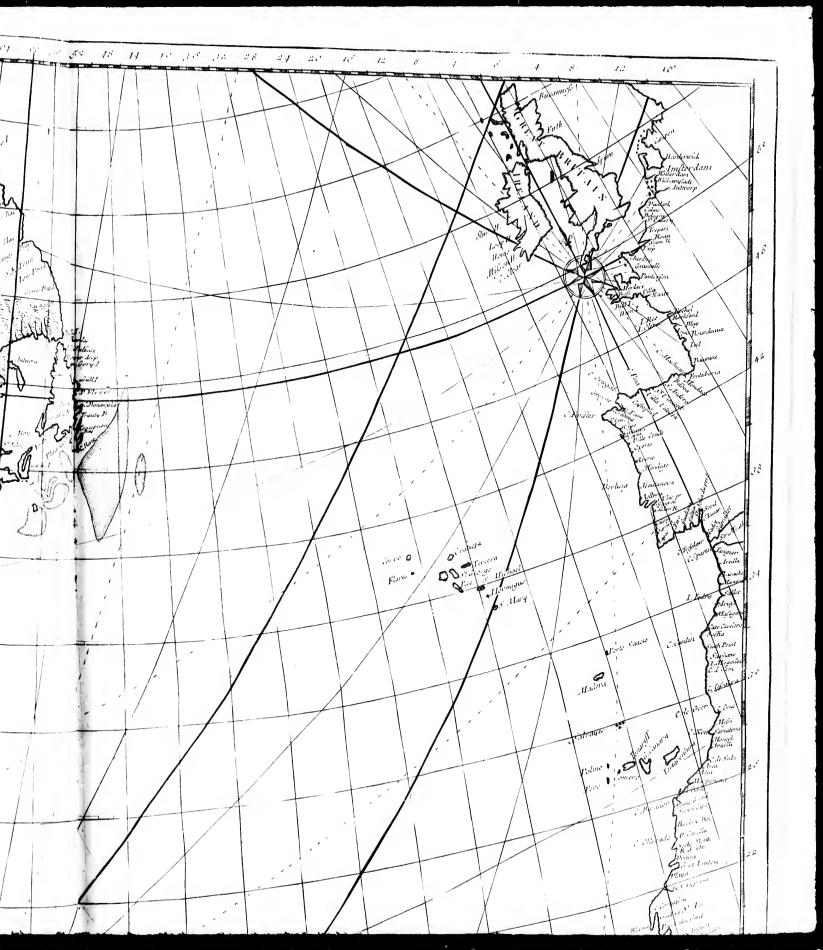
23 WEST MAIN STREET WERSTER, N.Y. 14580 (716) 872-4503

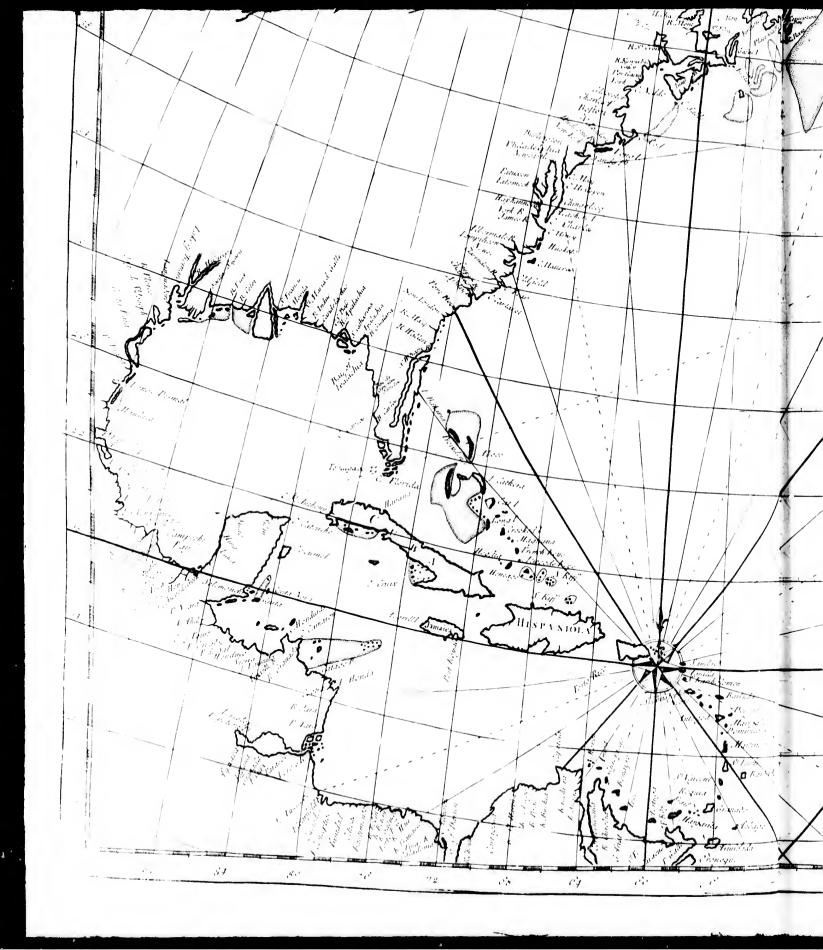


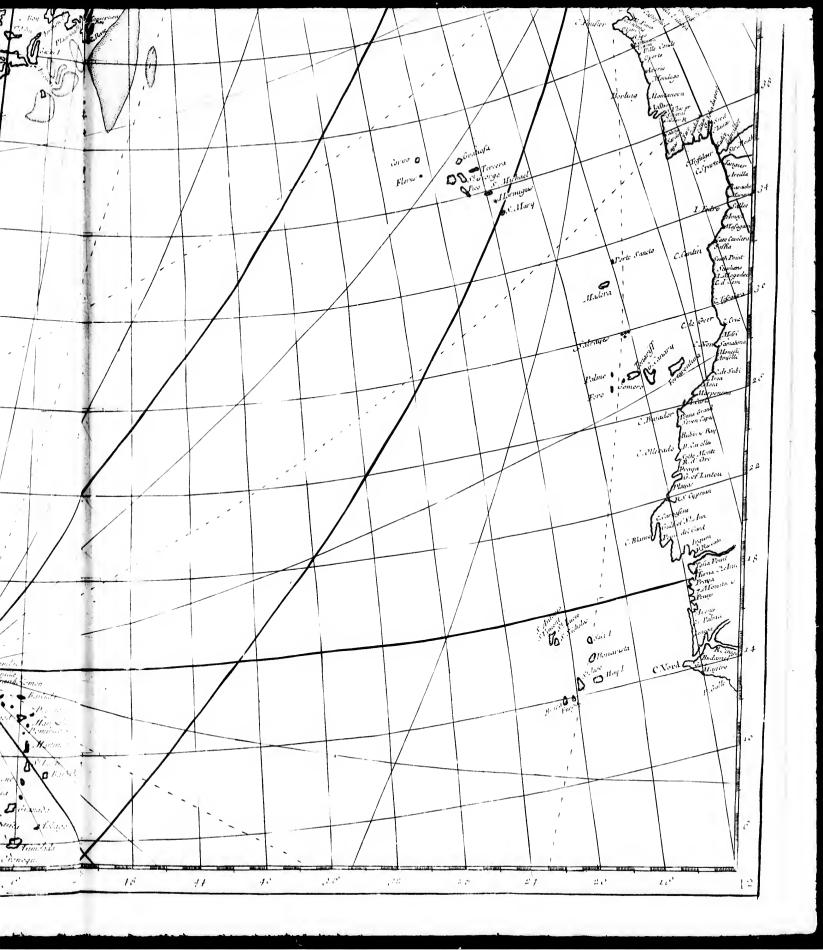


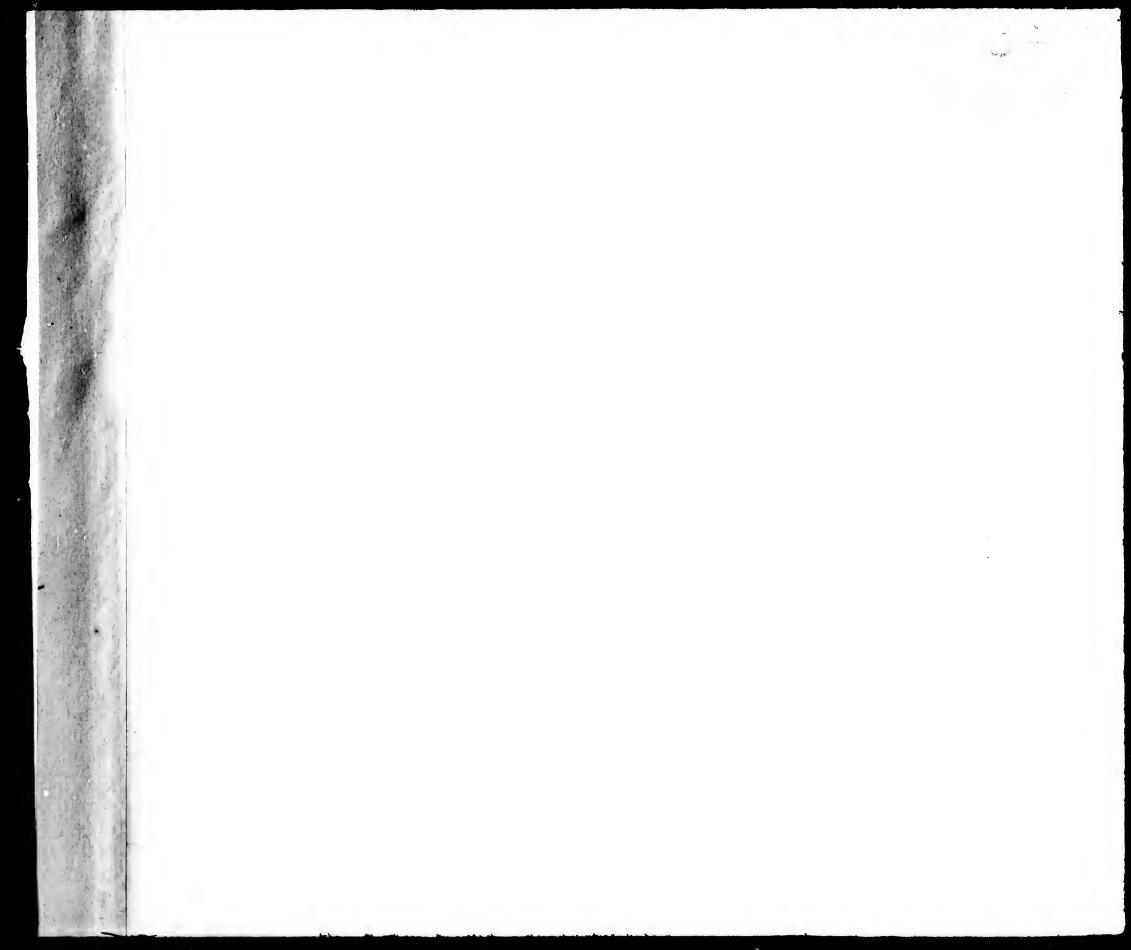


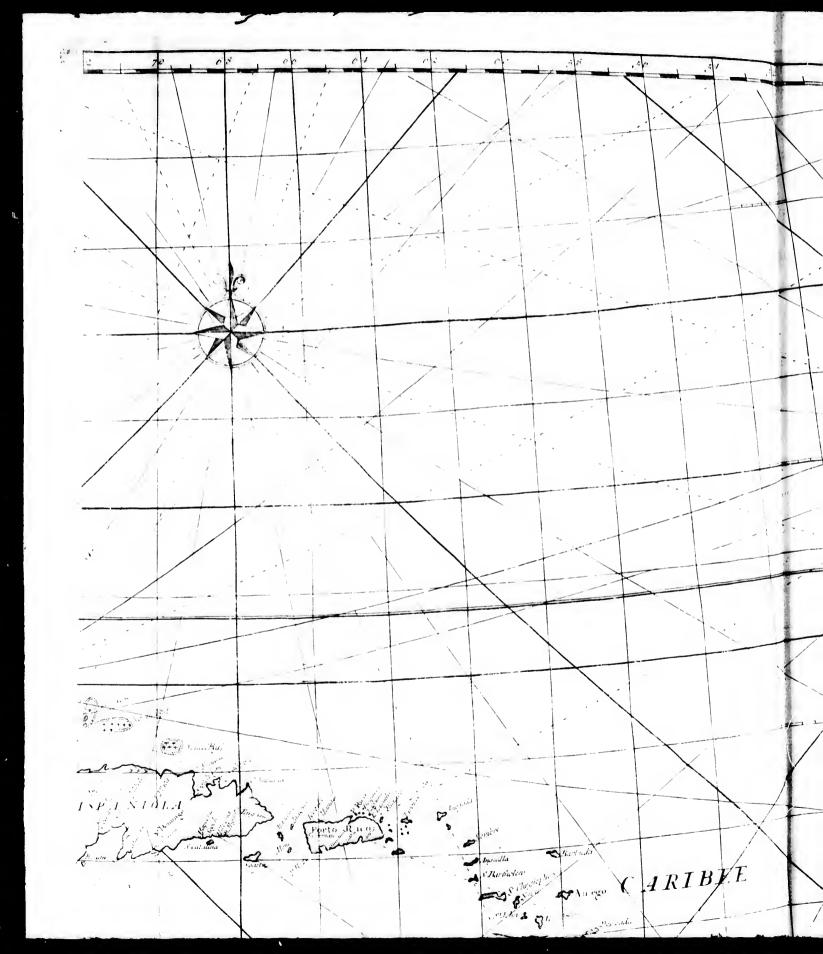


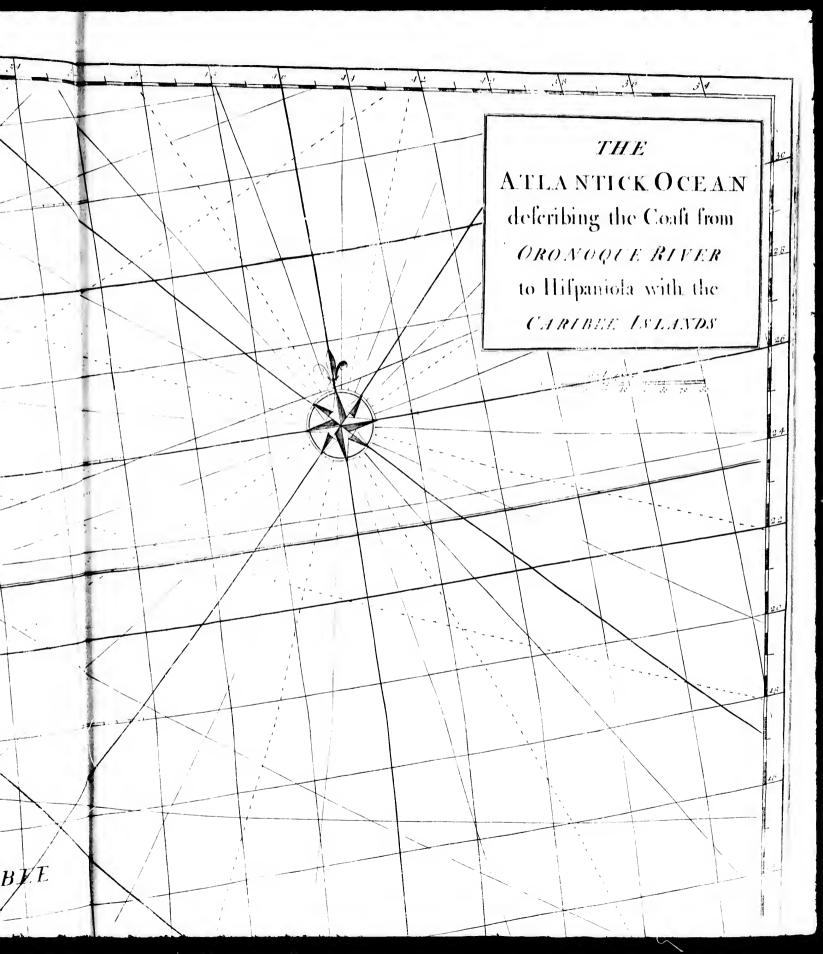


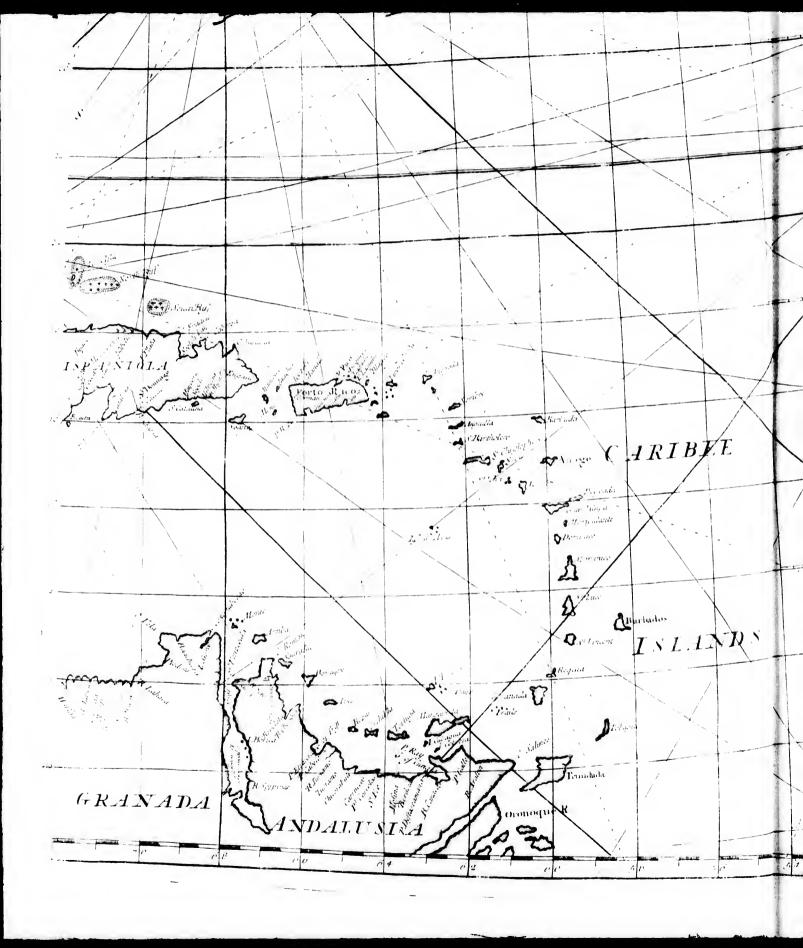


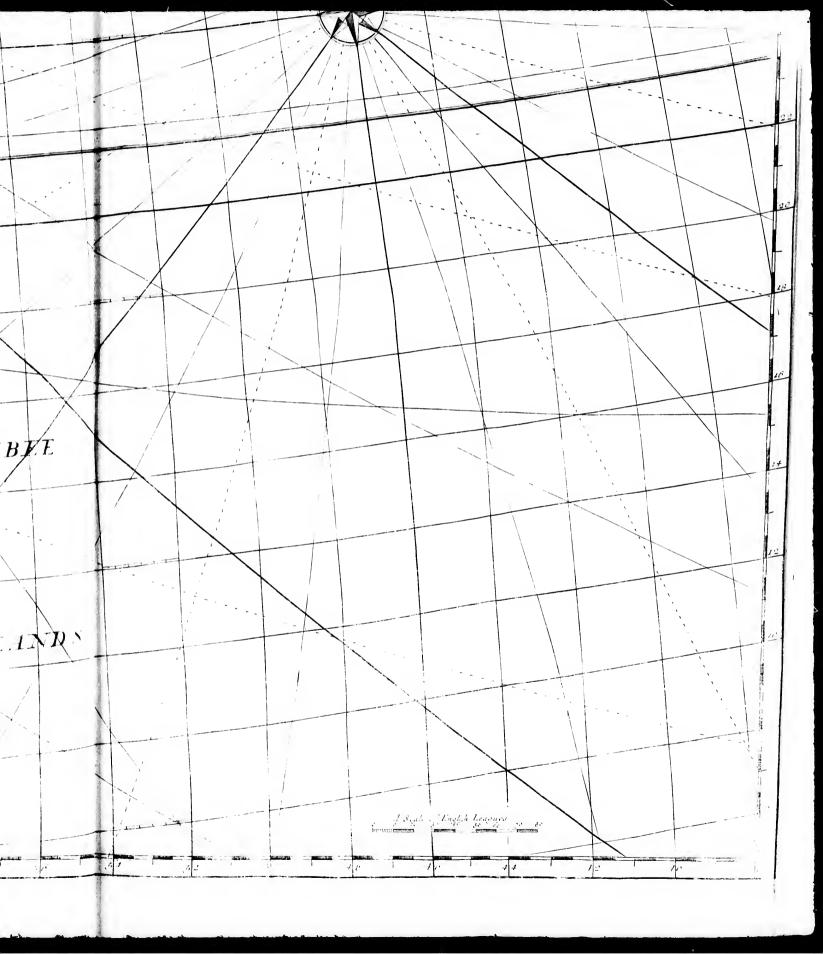






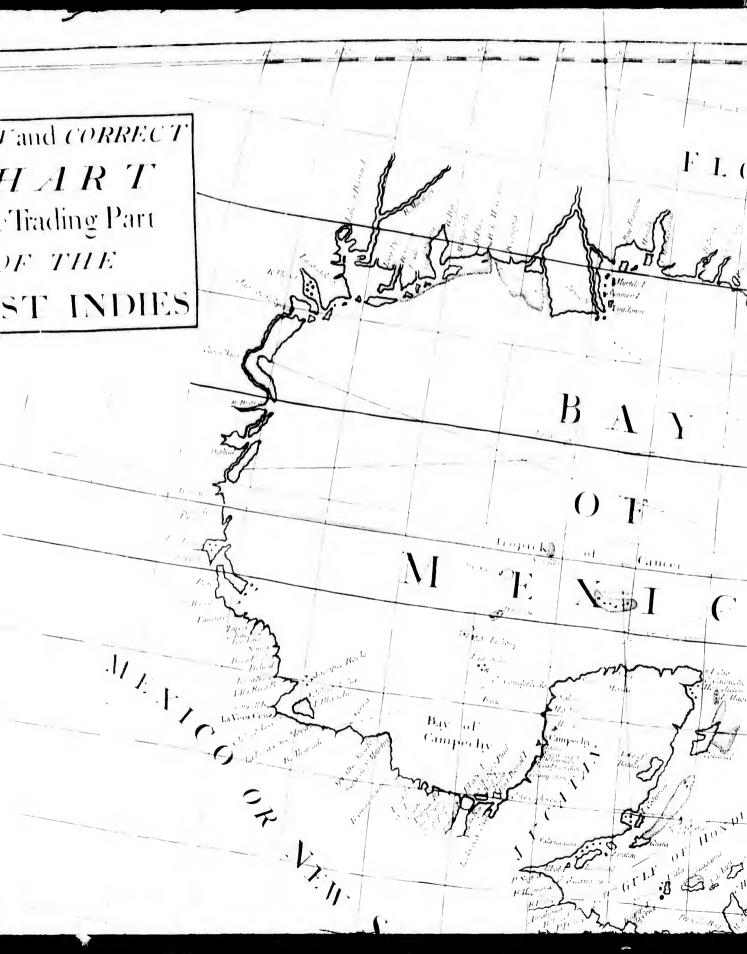




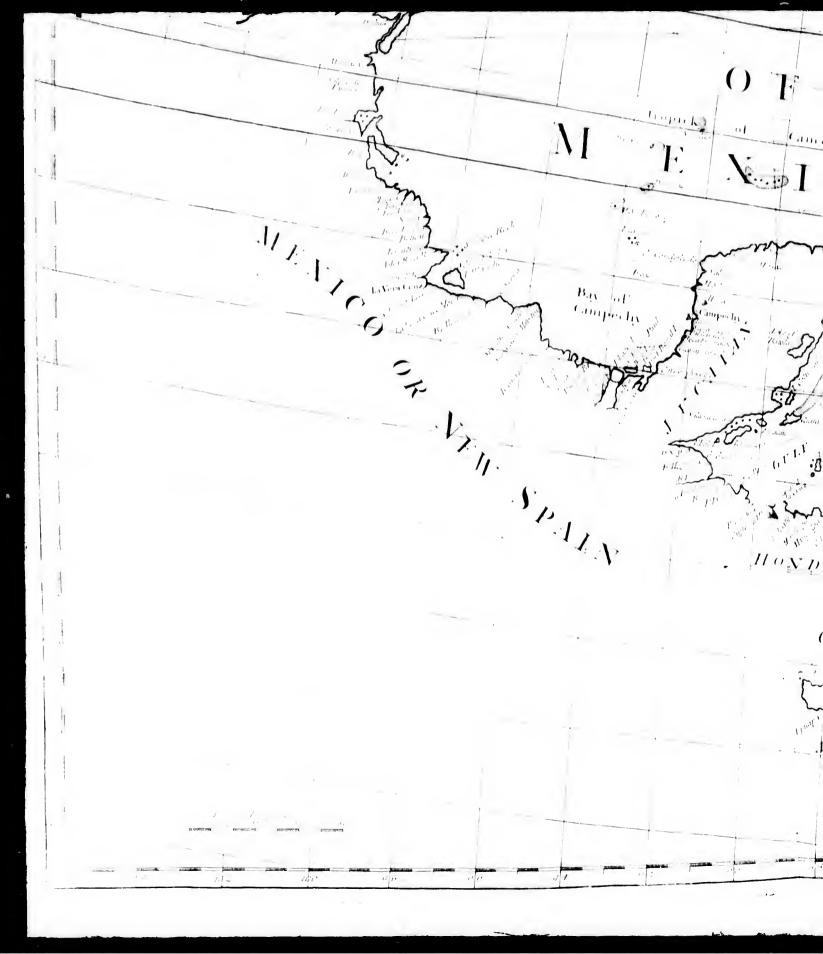




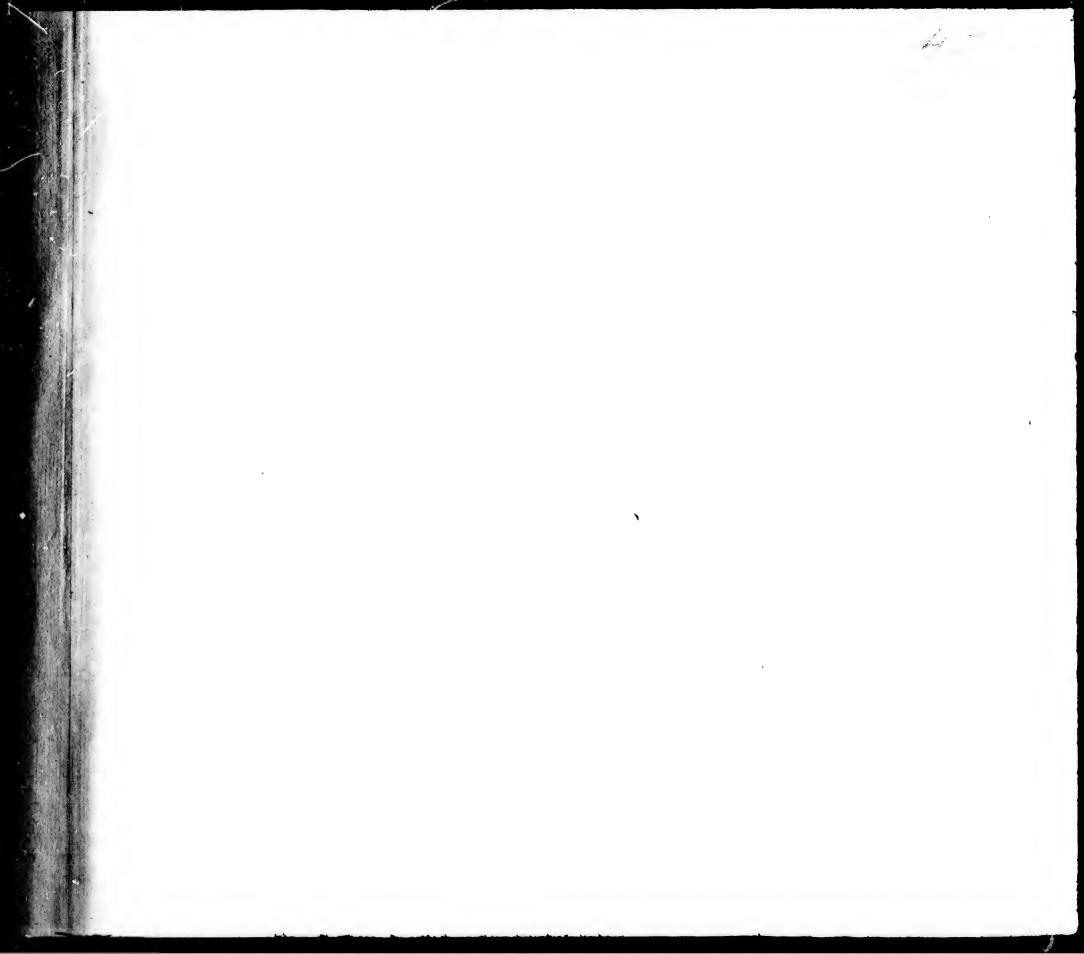
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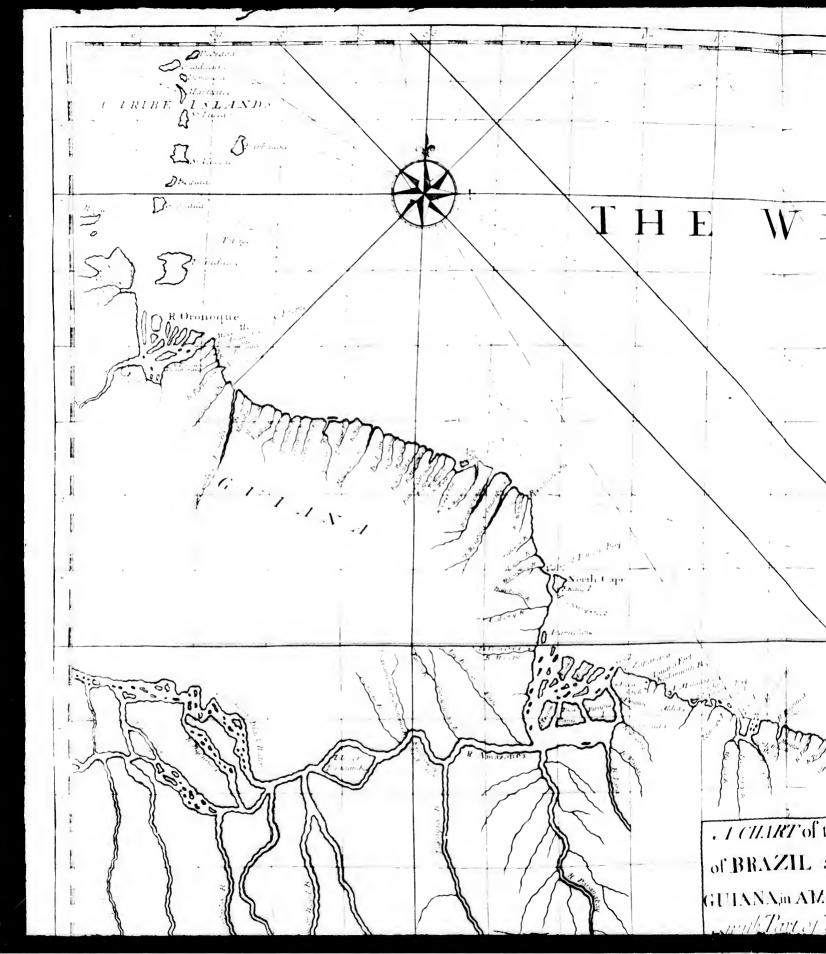


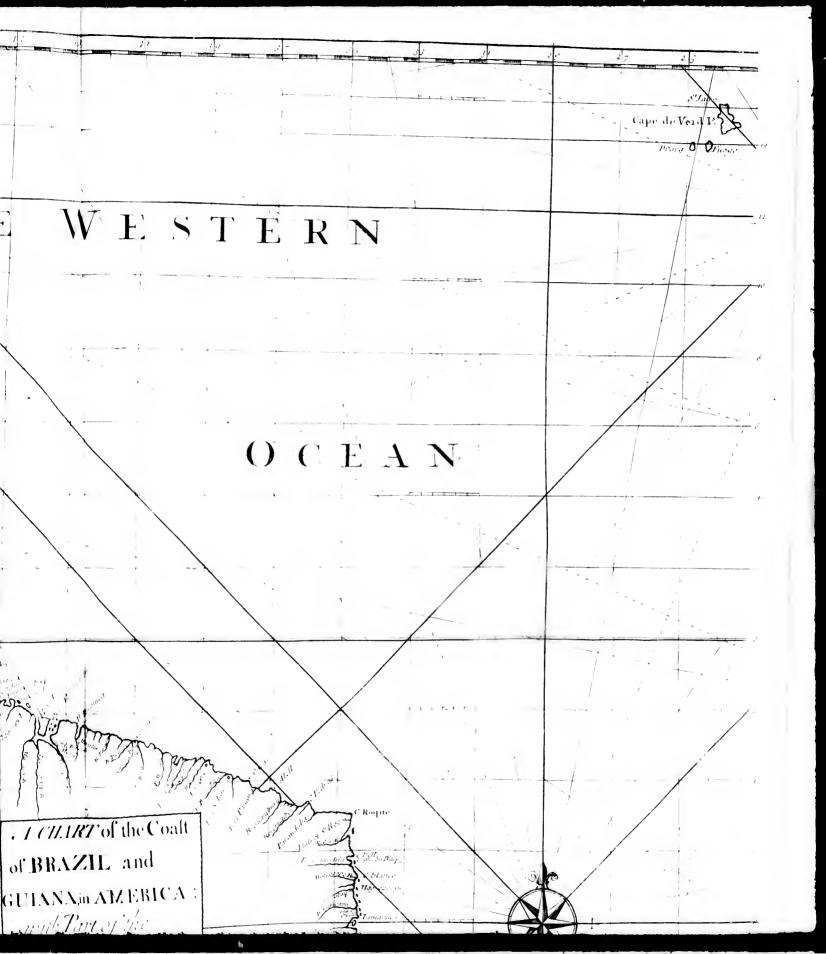




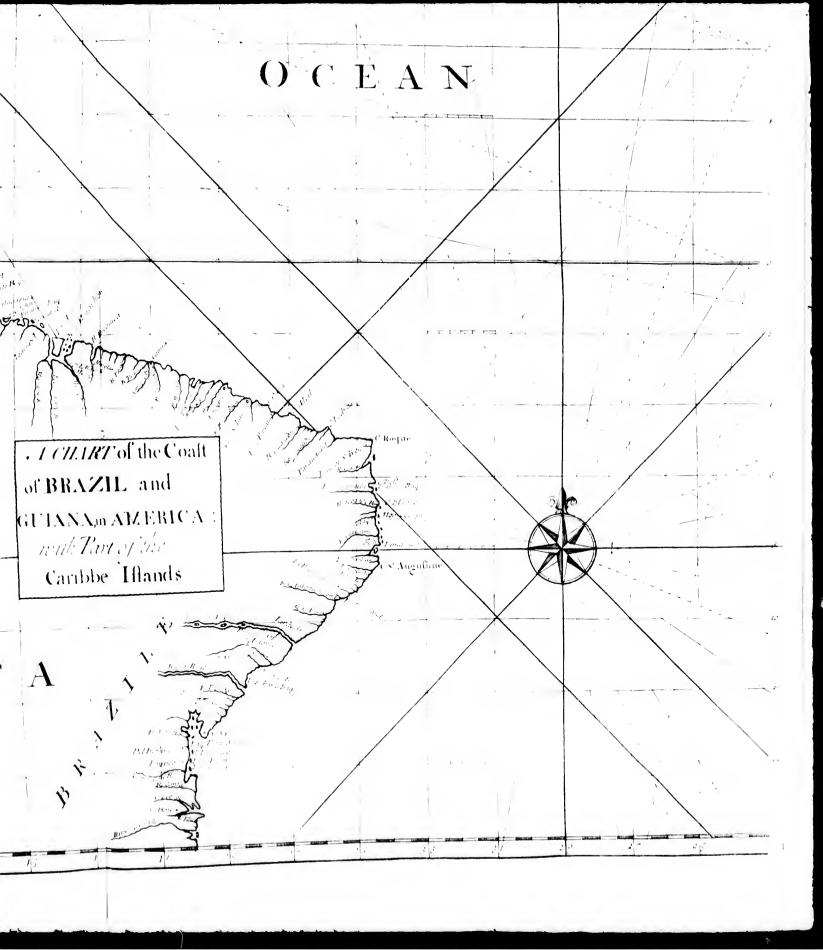


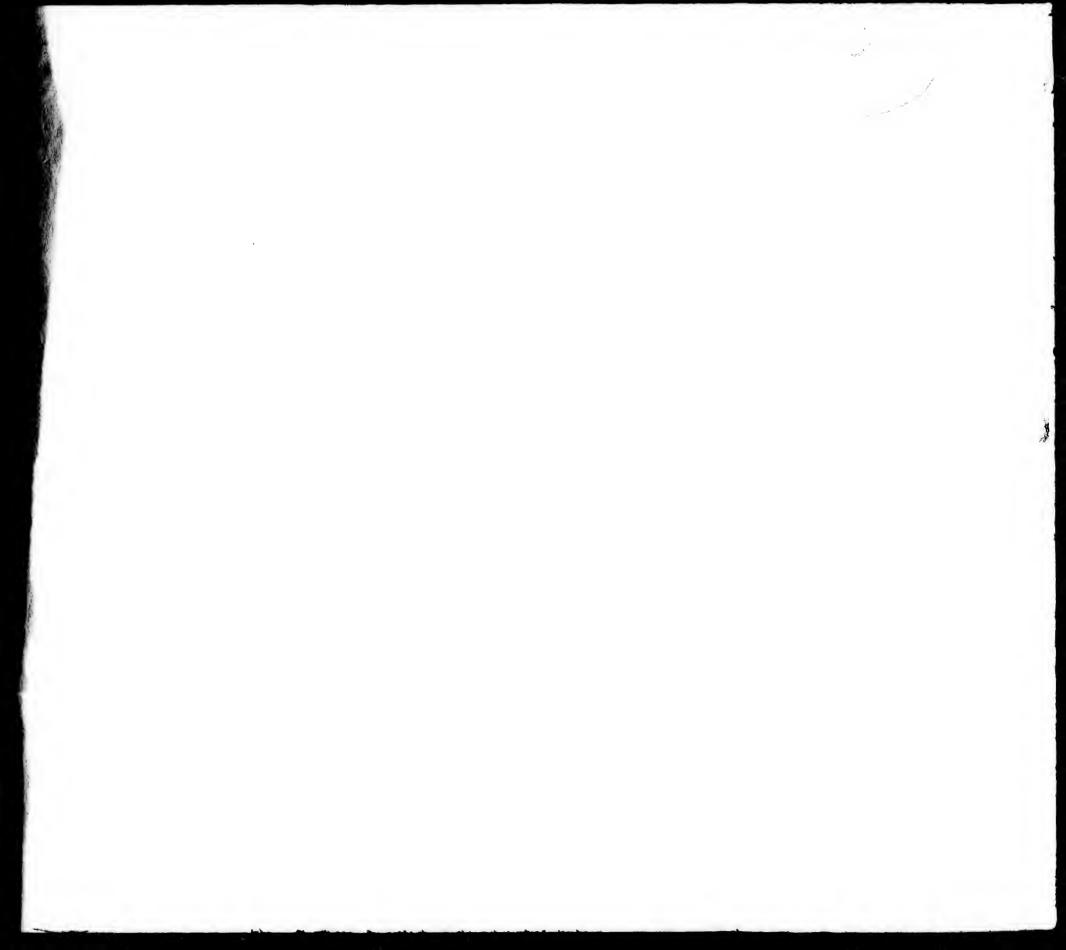


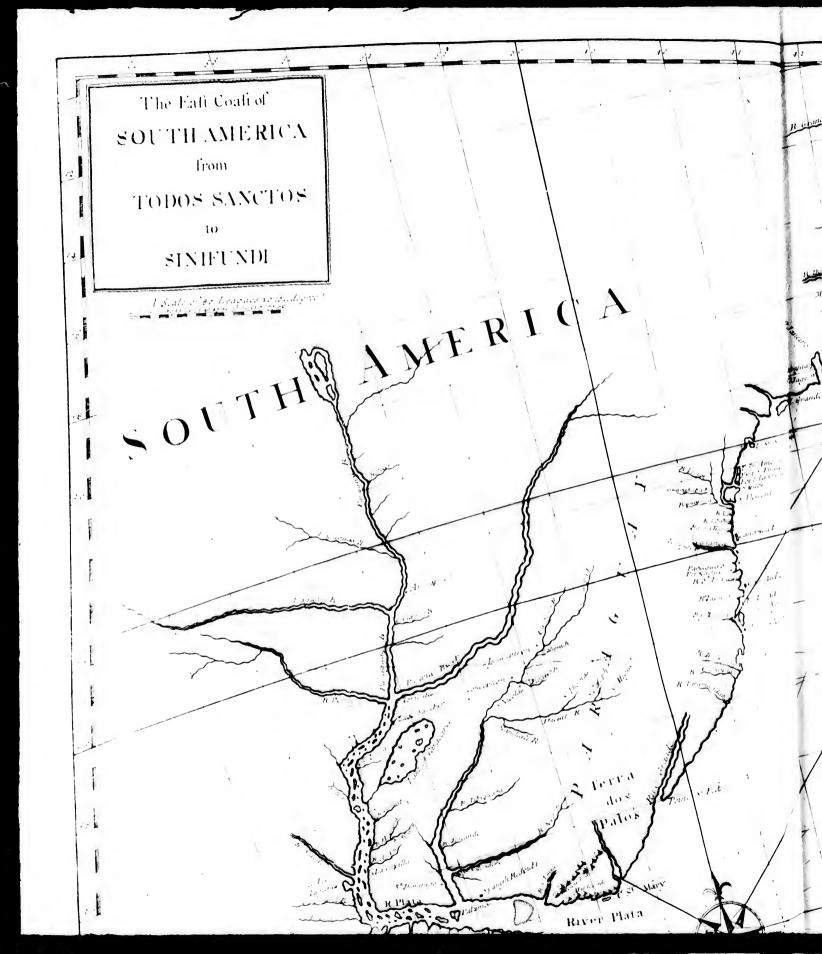




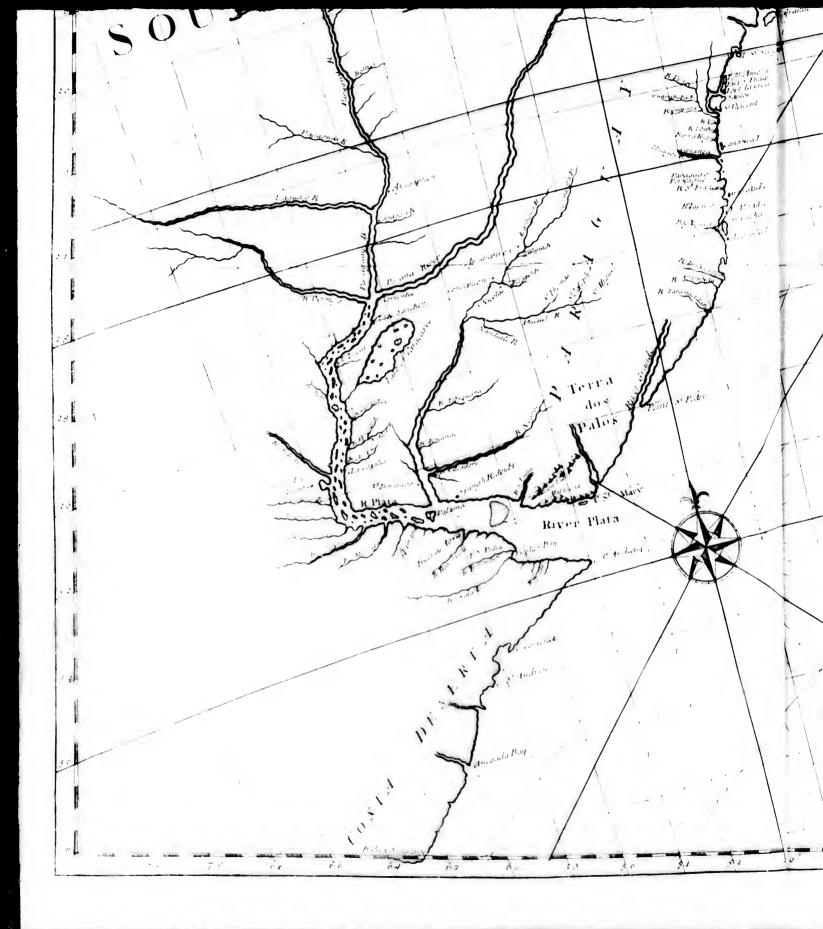


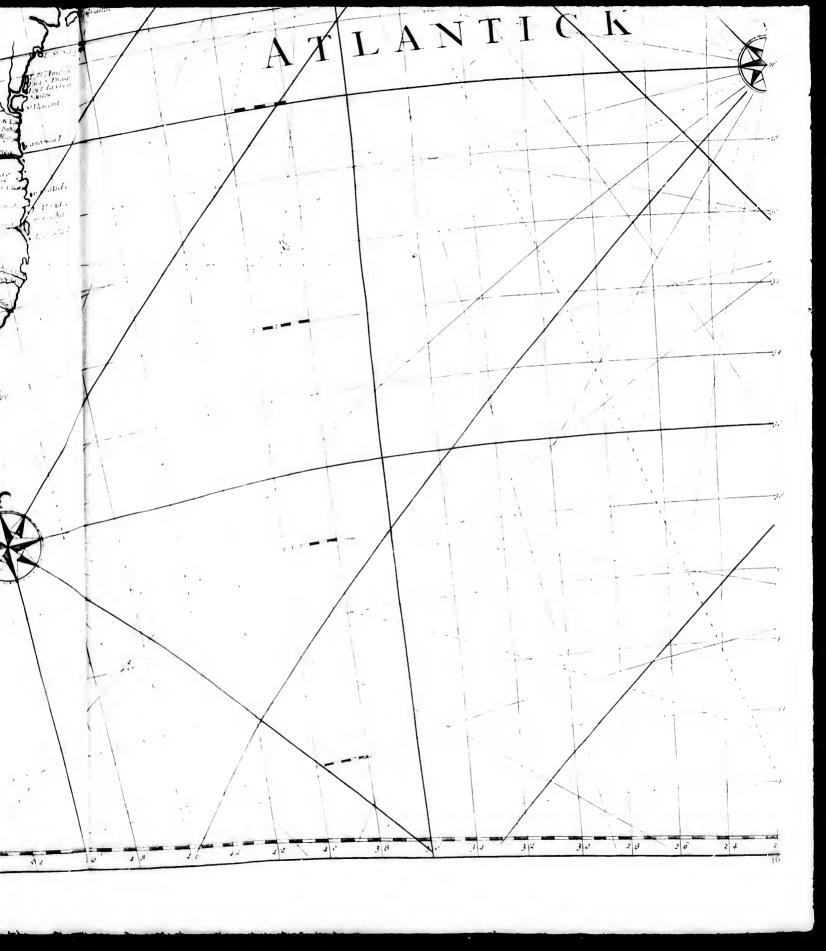


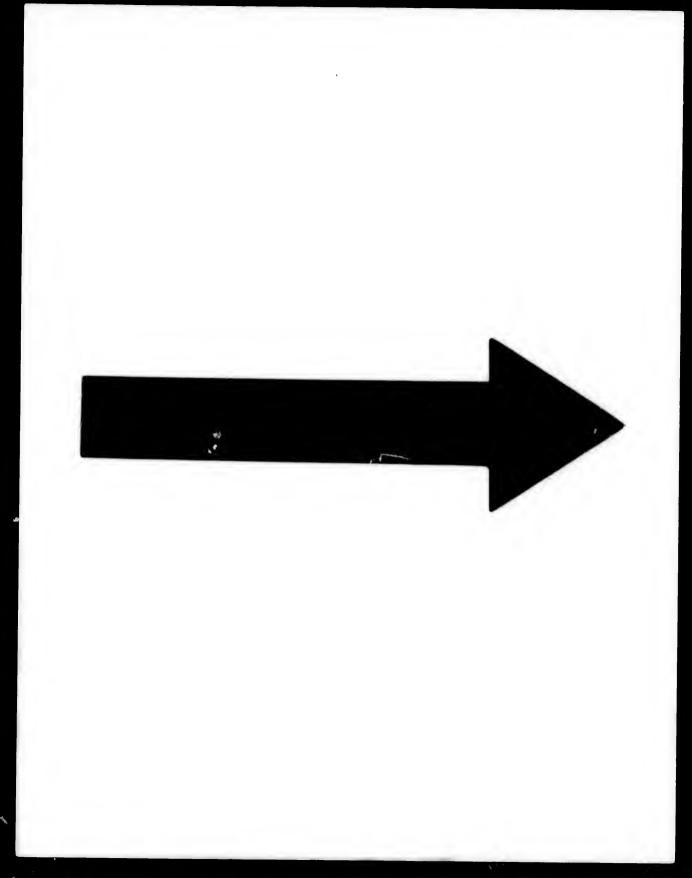












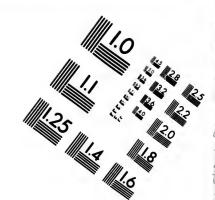
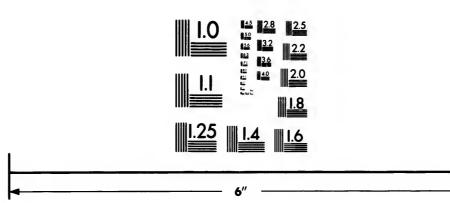


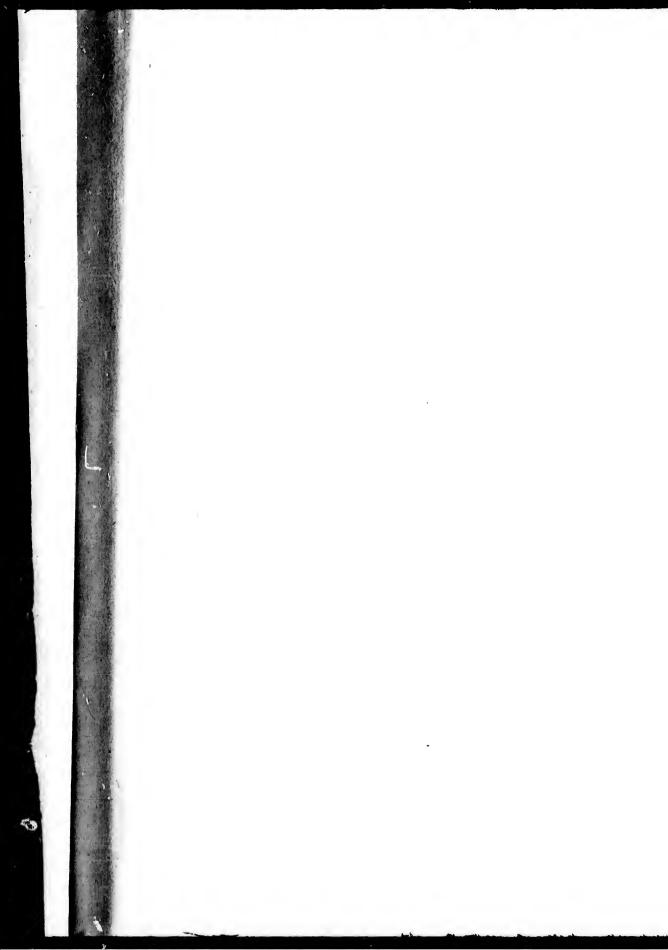
IMAGE EVALUATION TEST TARGET (MT-3)

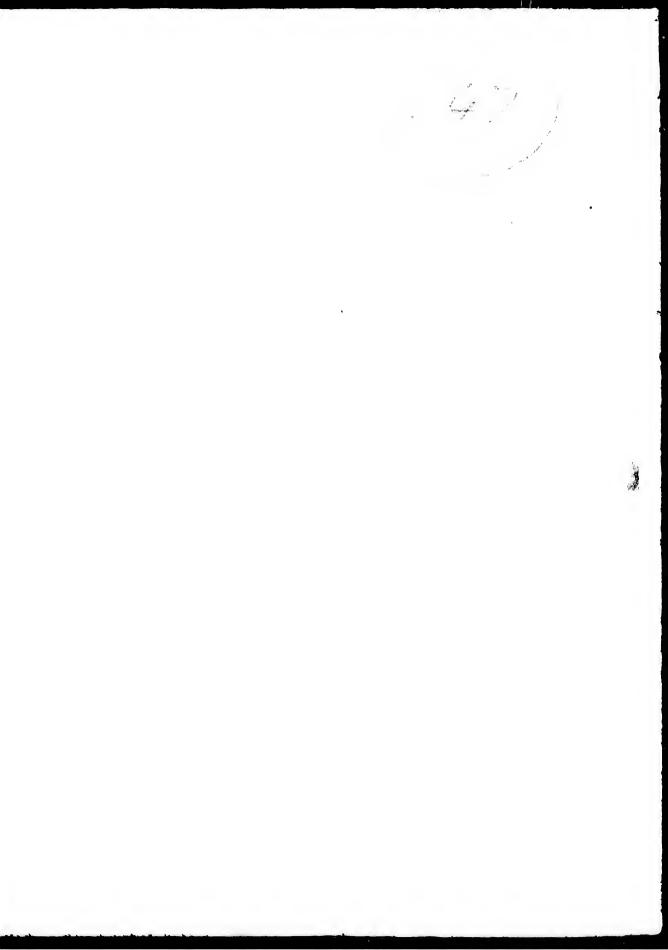


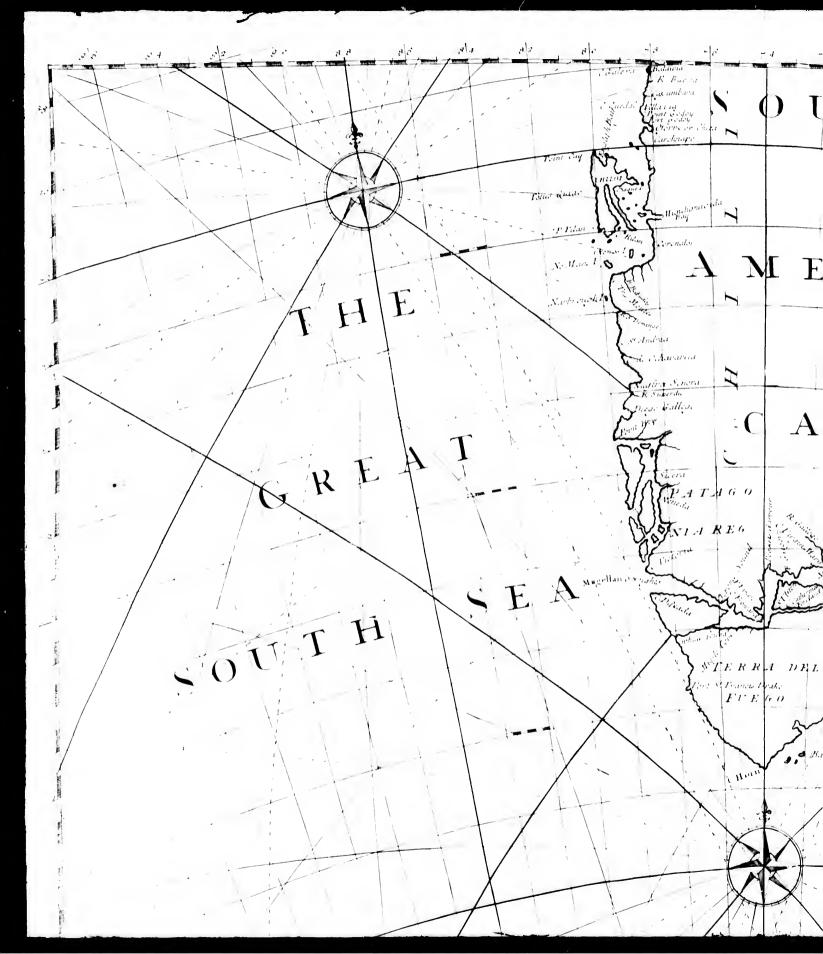
Photographic Sciences Corporation

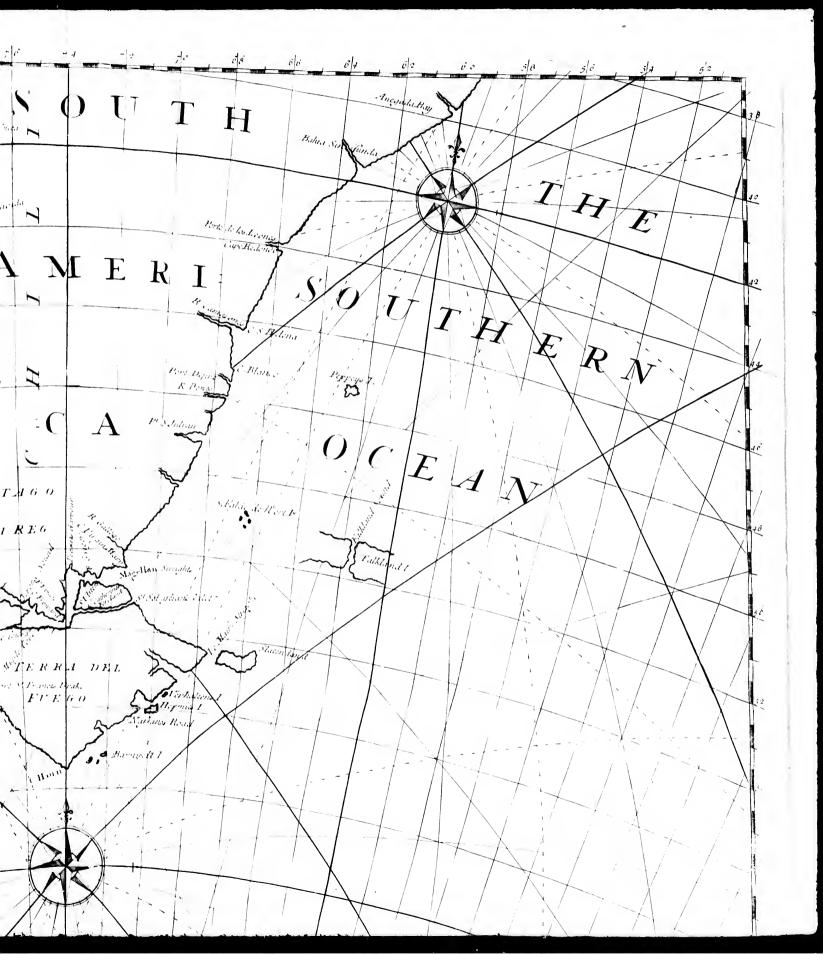
23 WEST MAIN STREET WEBSTER, N.Y. 34580 (716) 872-4503

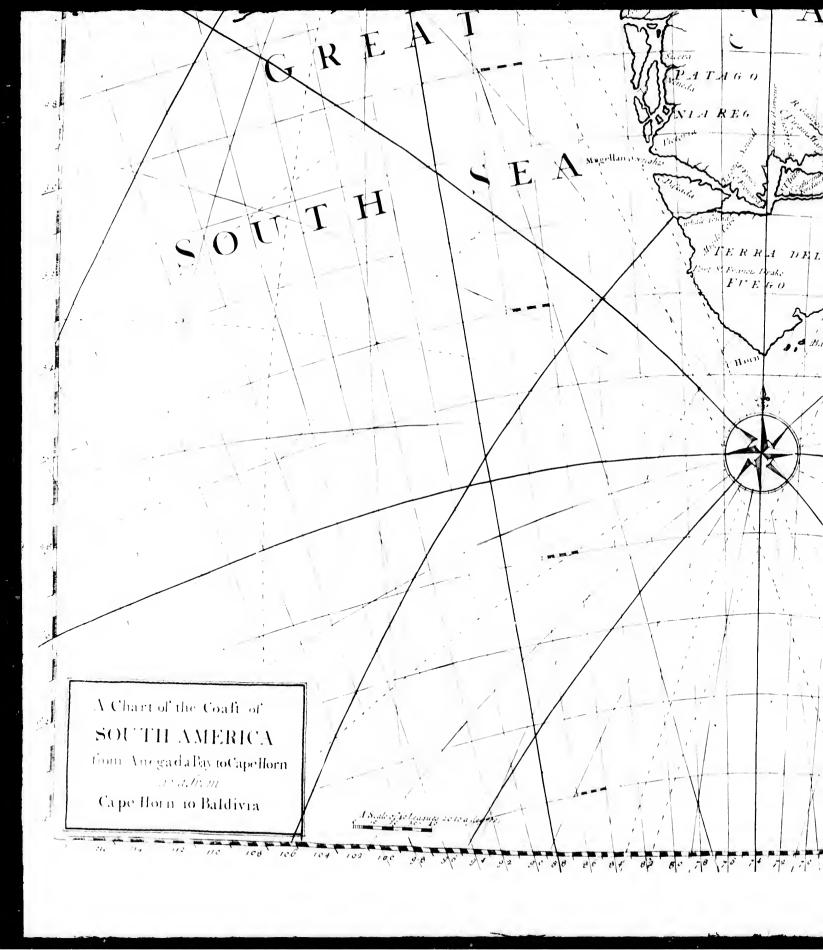
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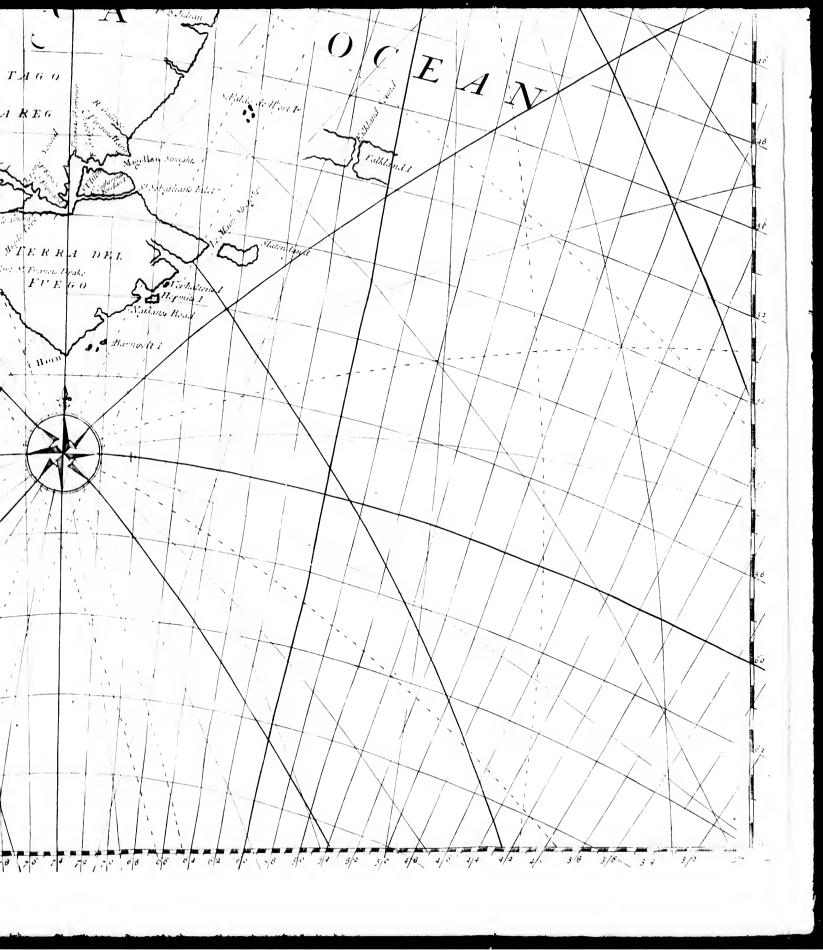


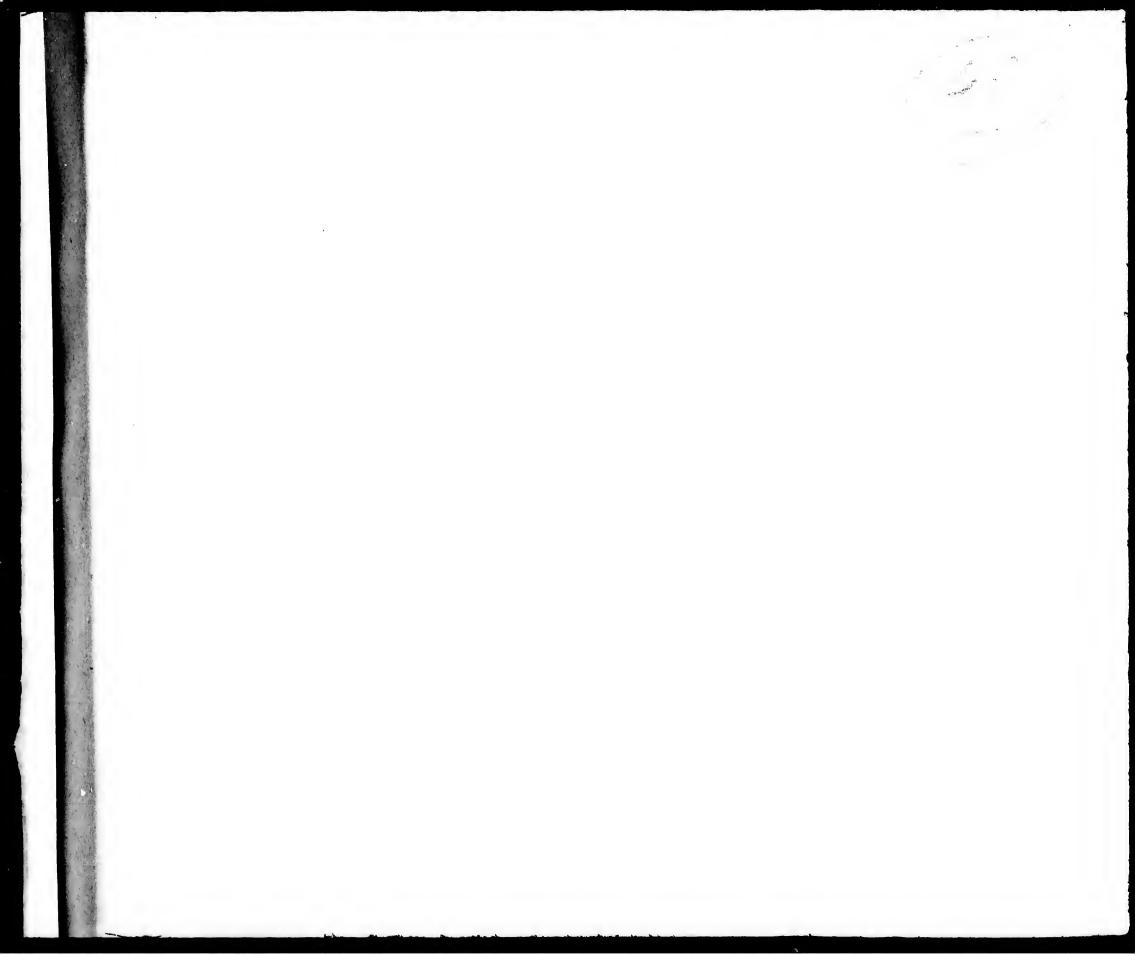


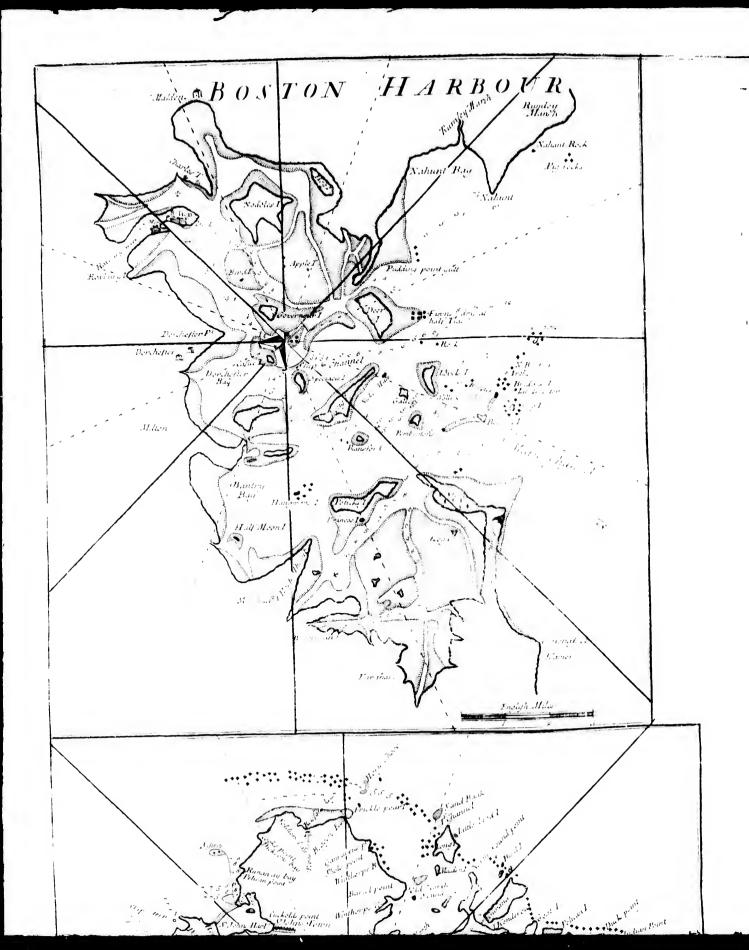


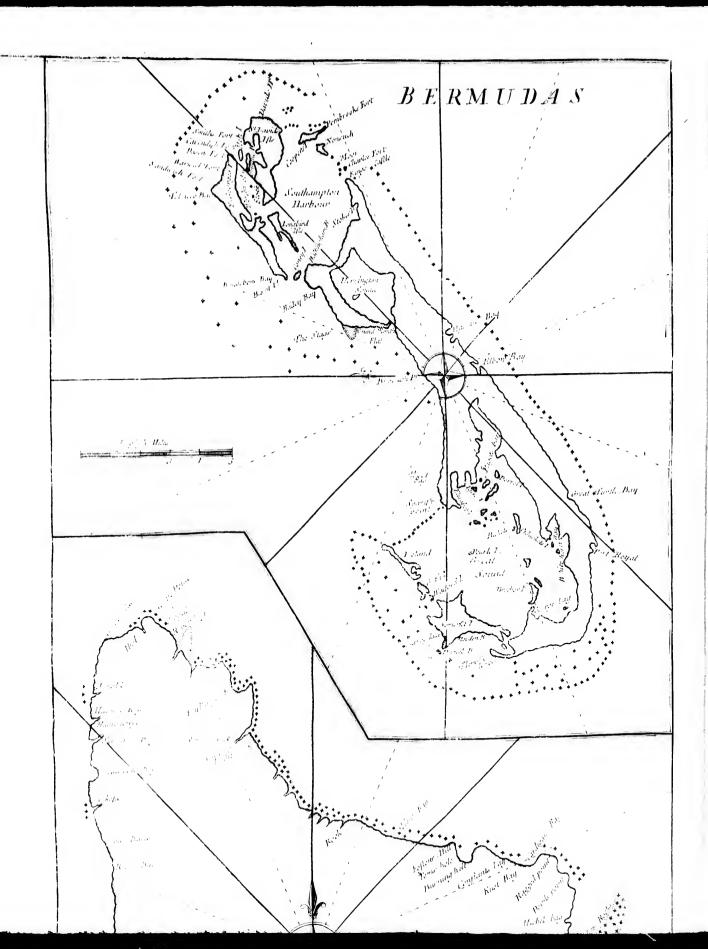


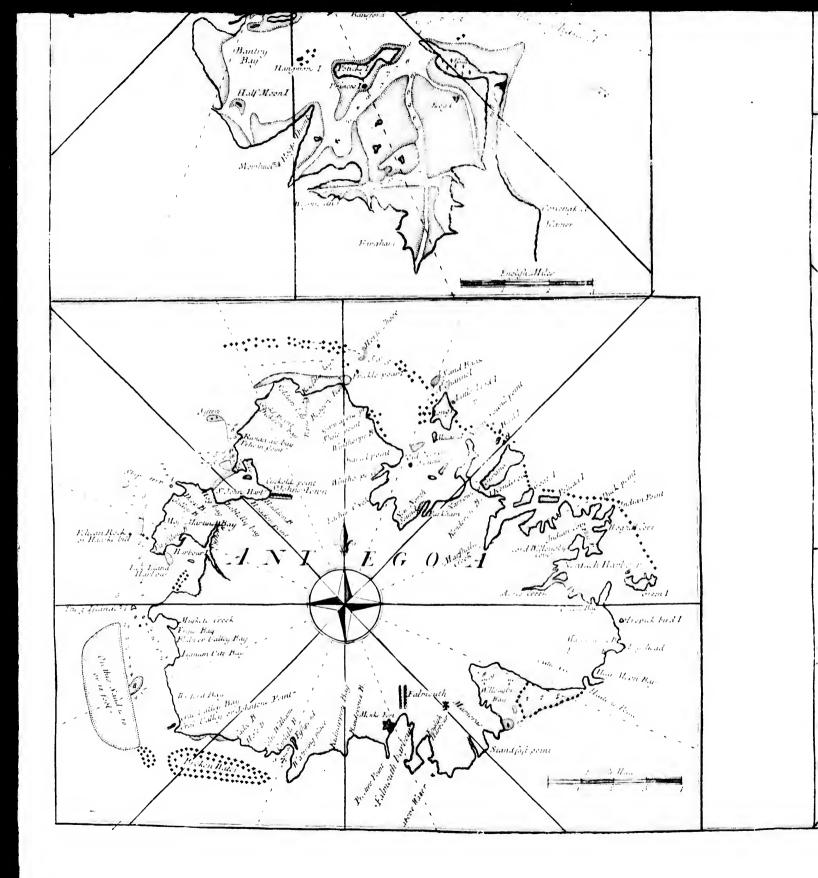


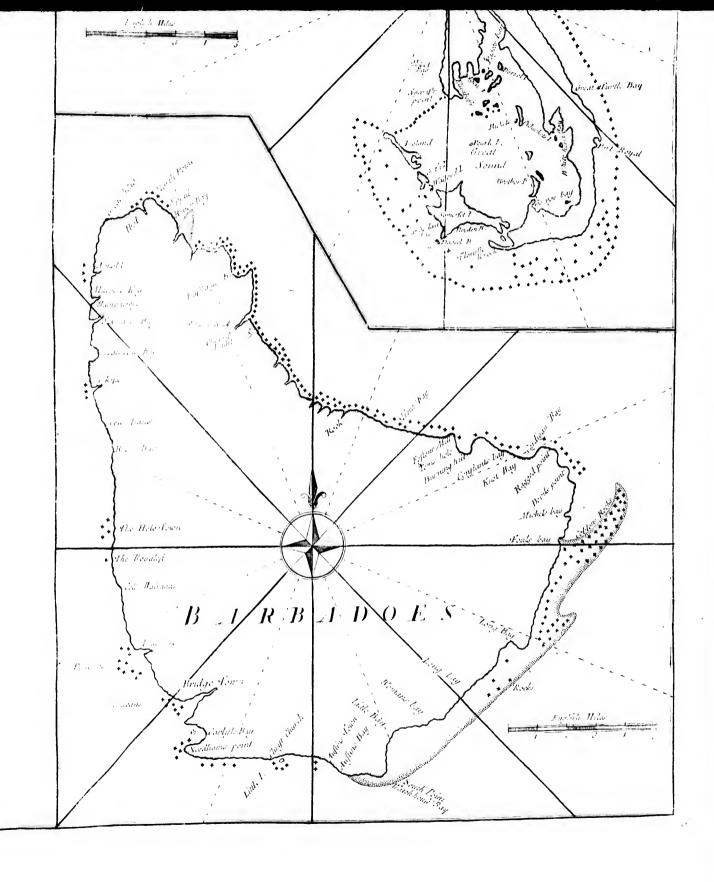






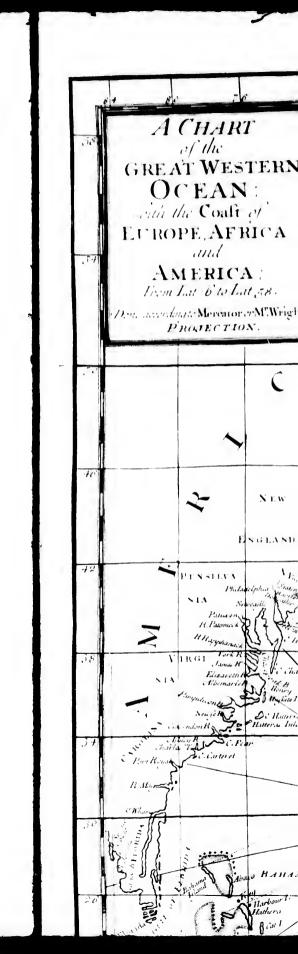


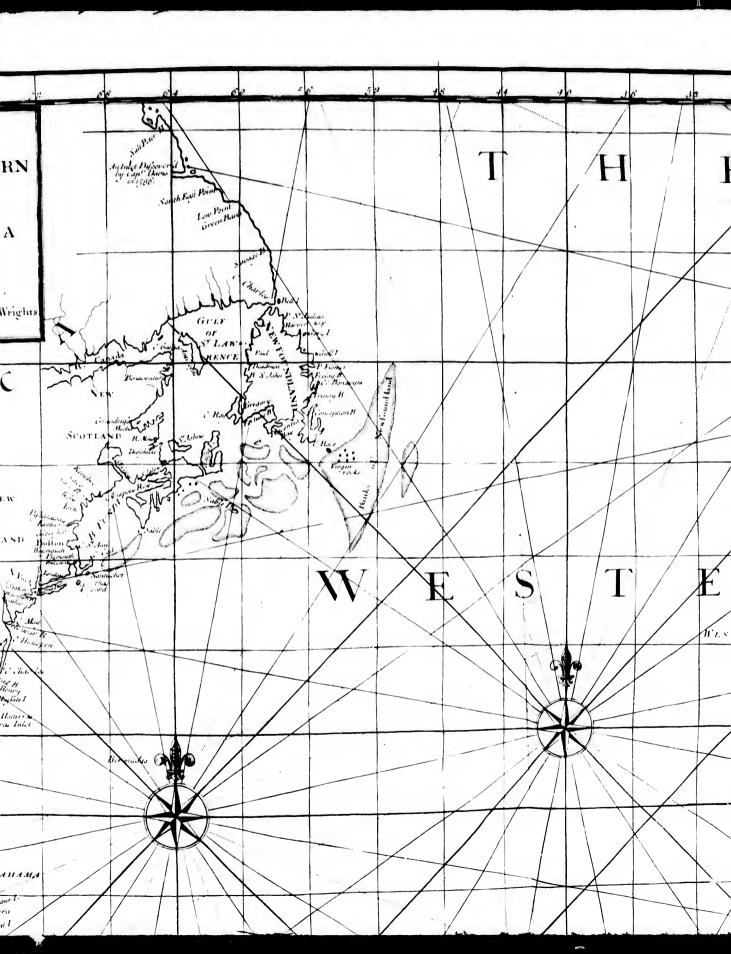


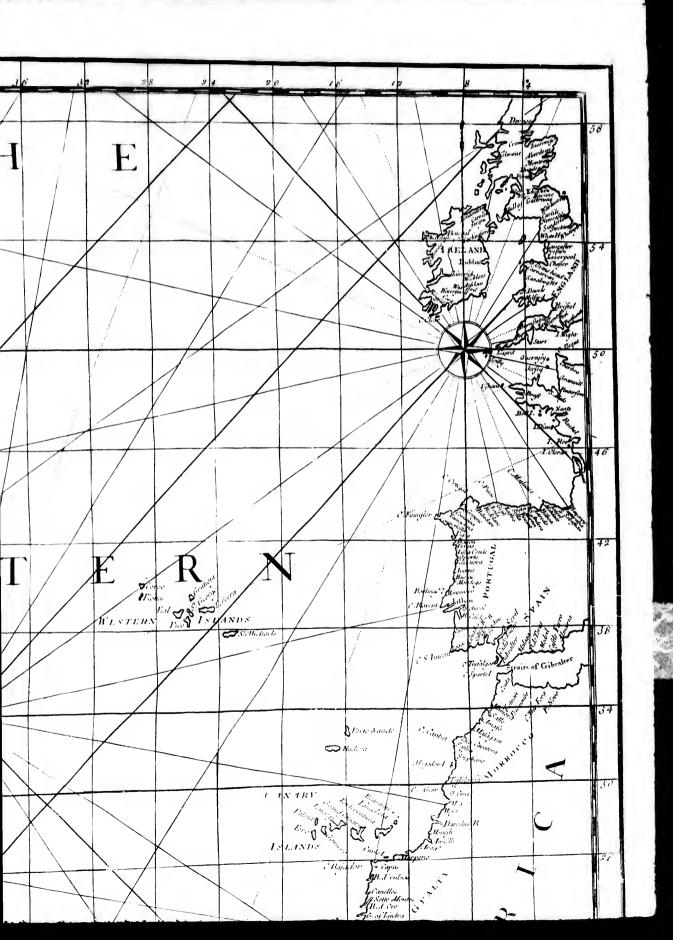


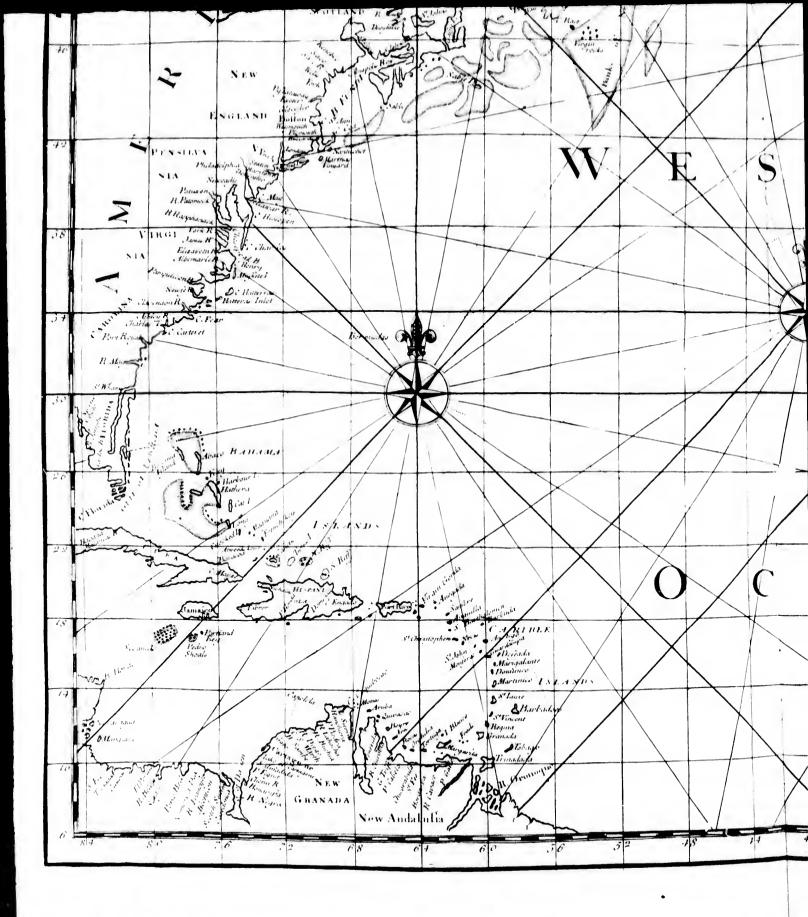
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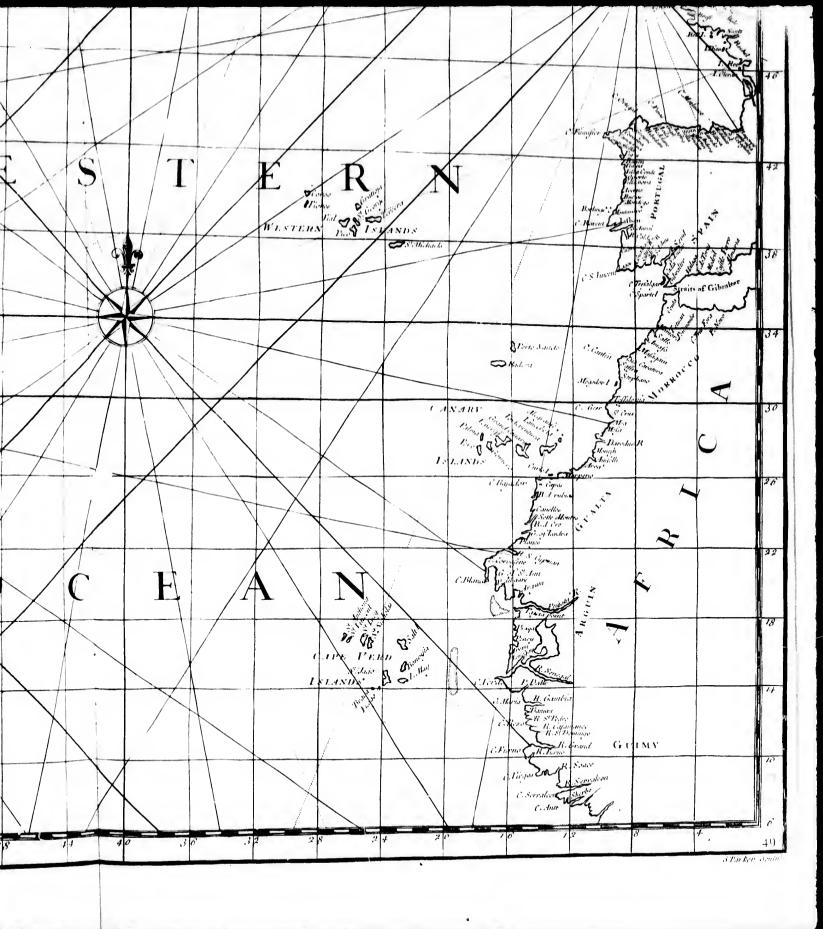


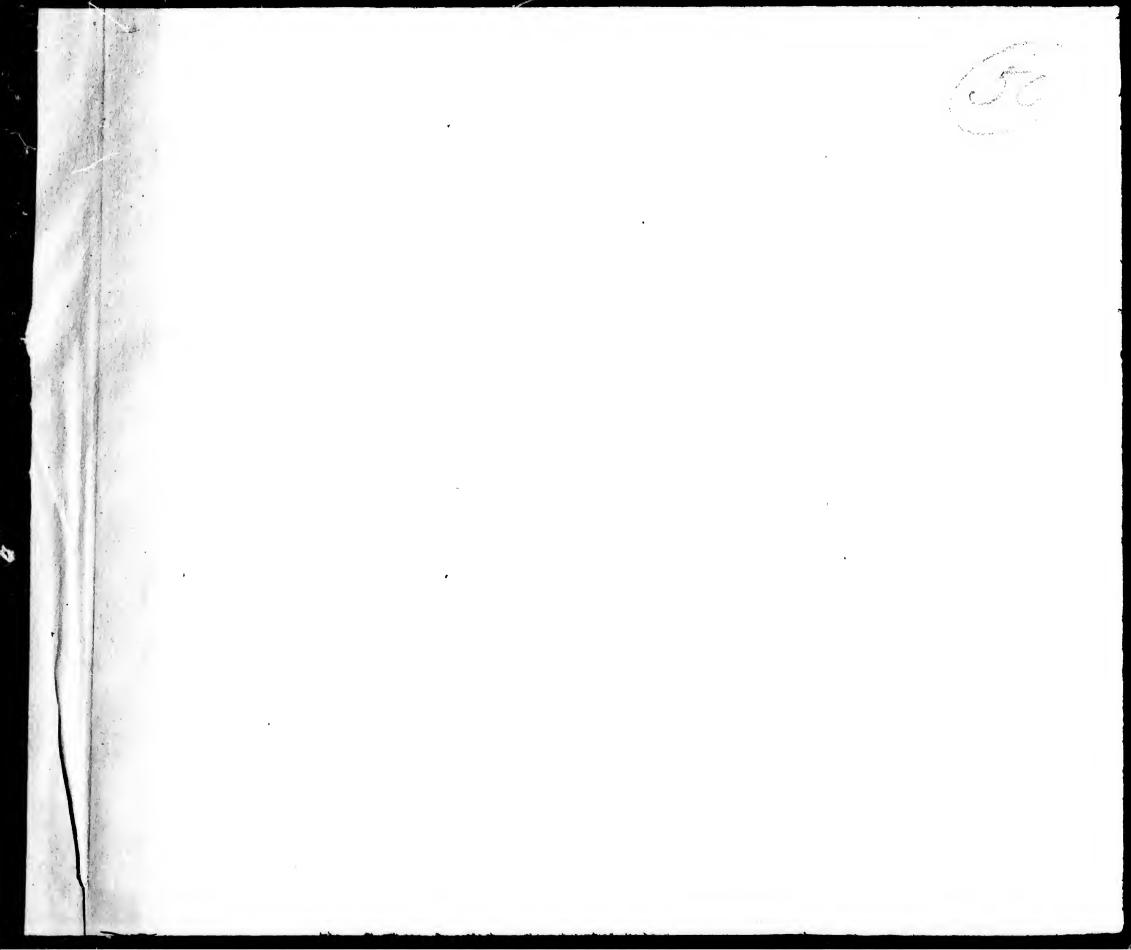


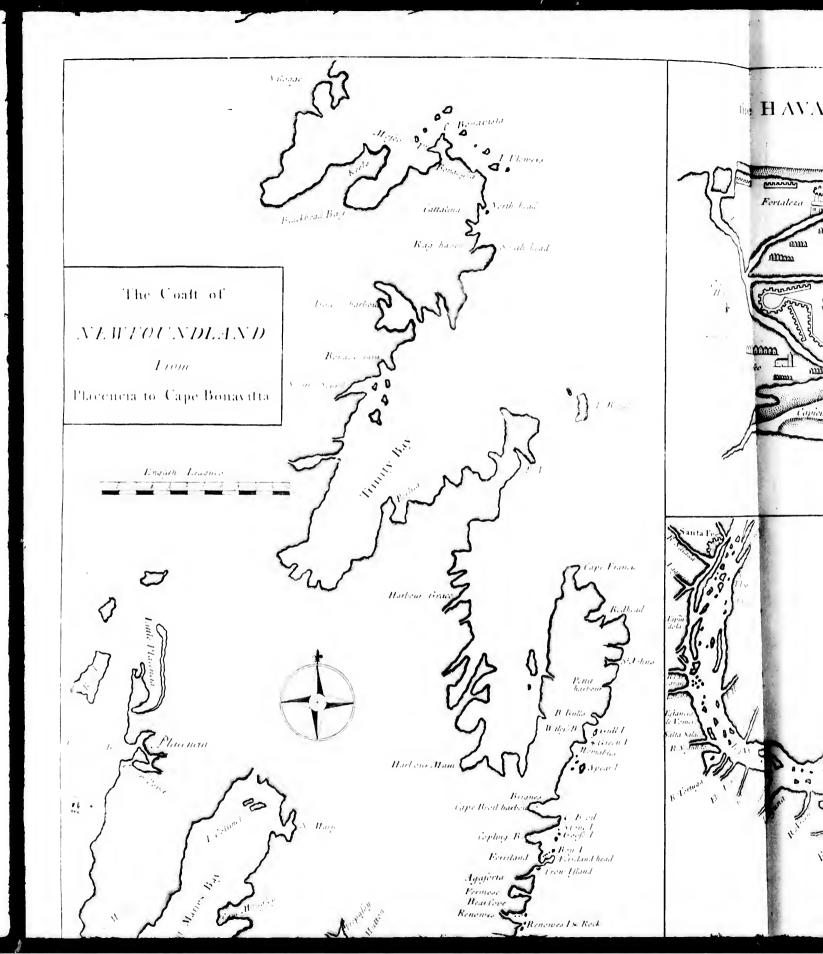




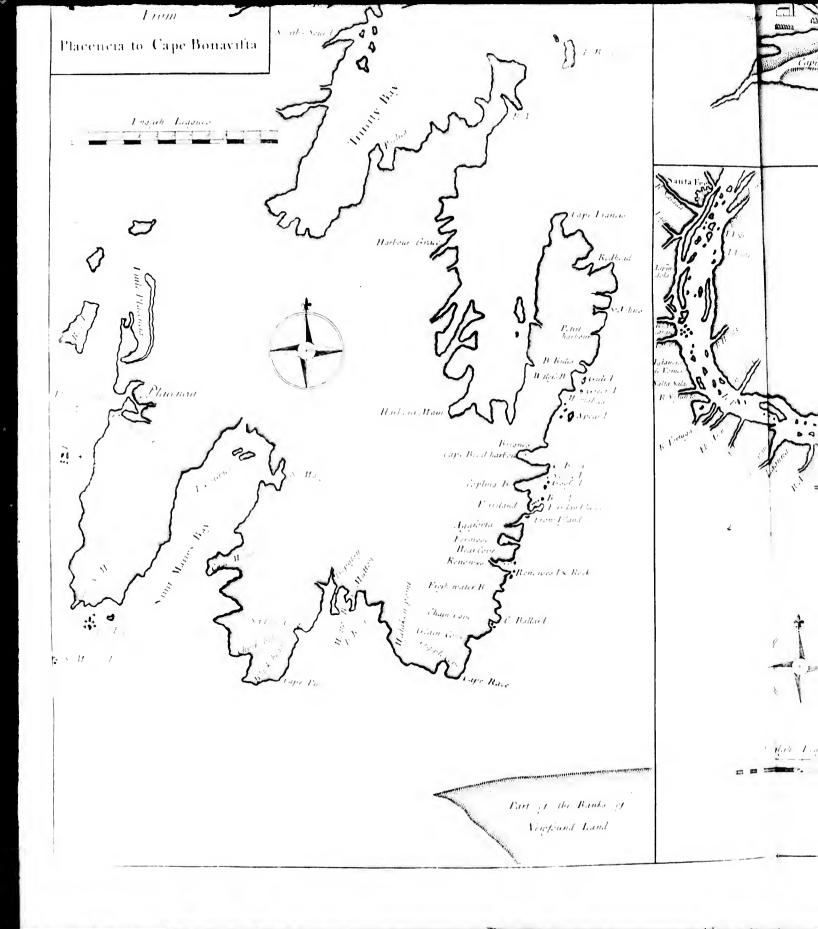


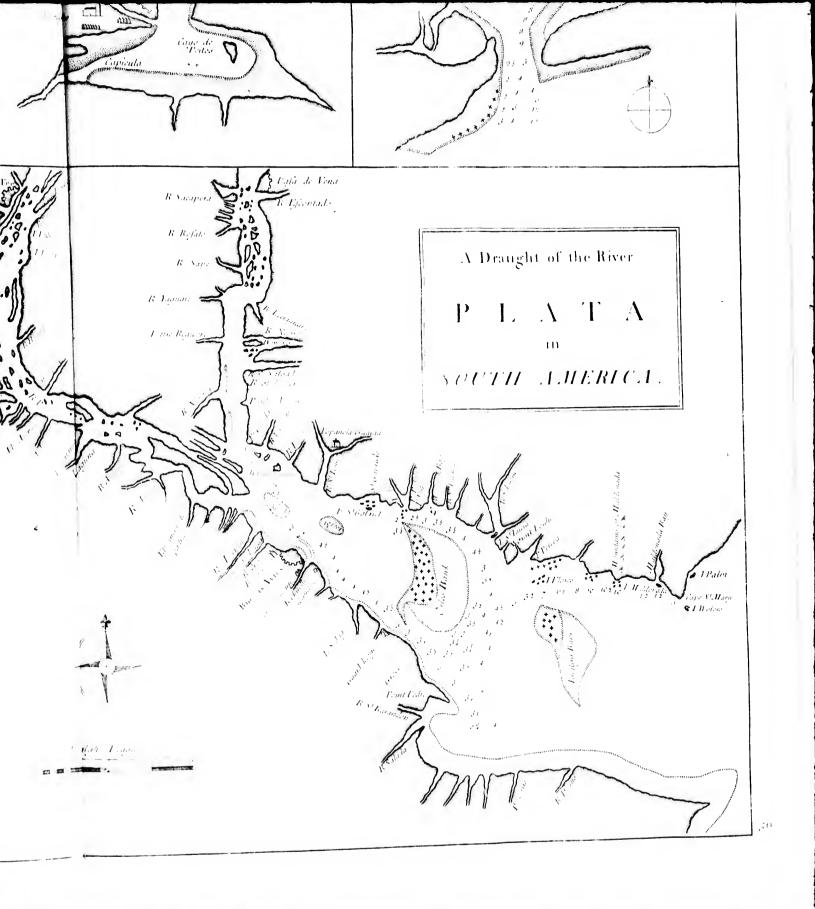


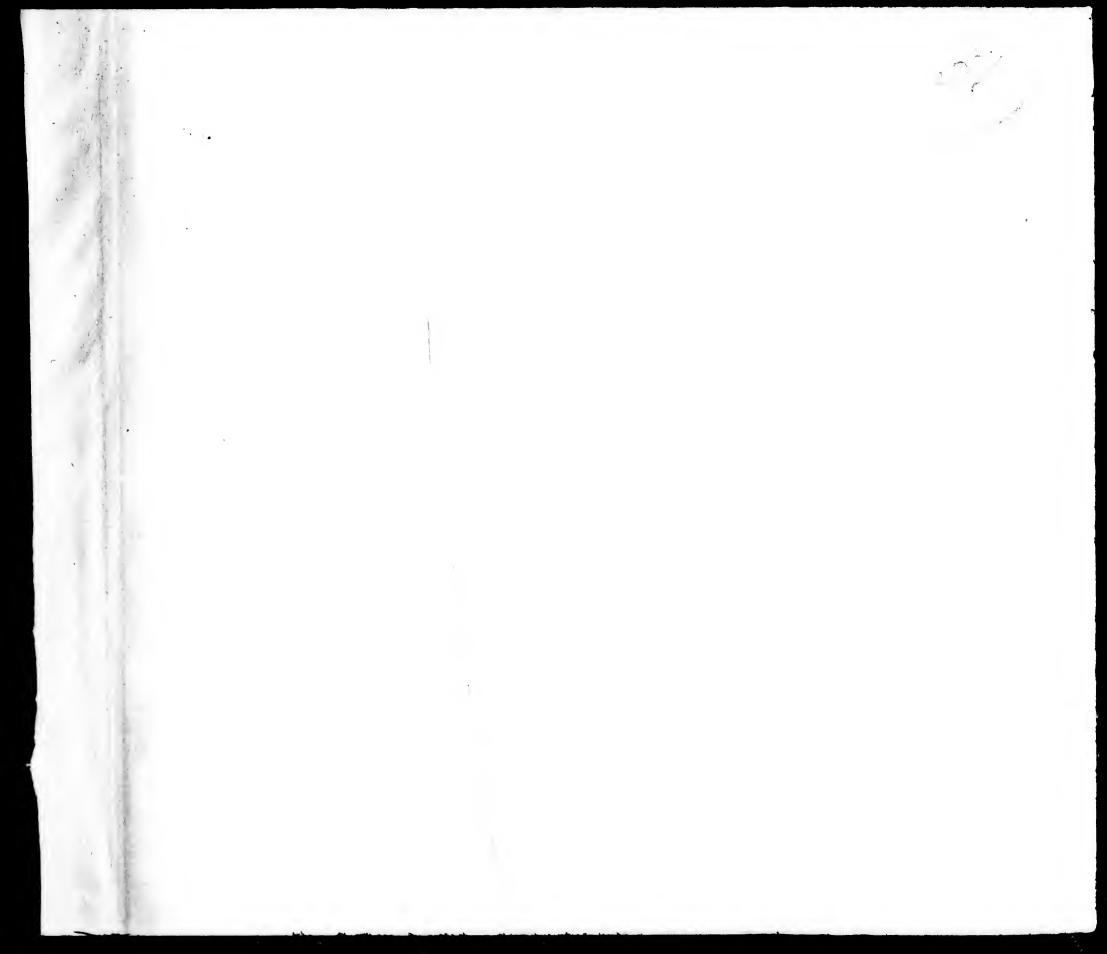


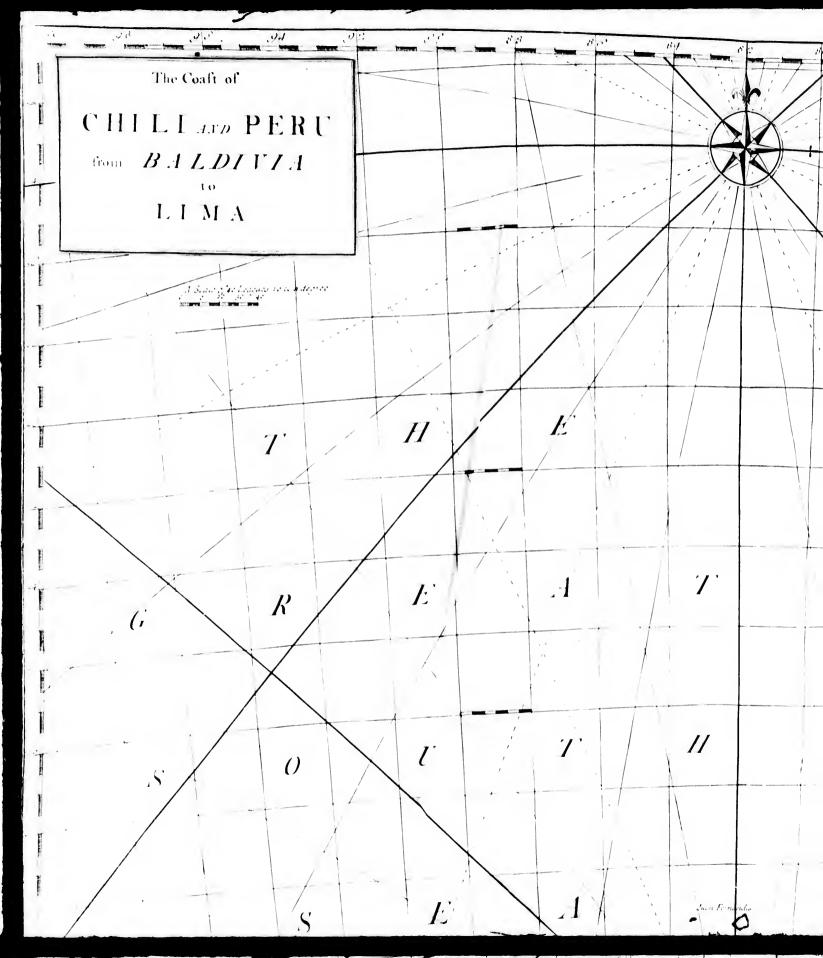


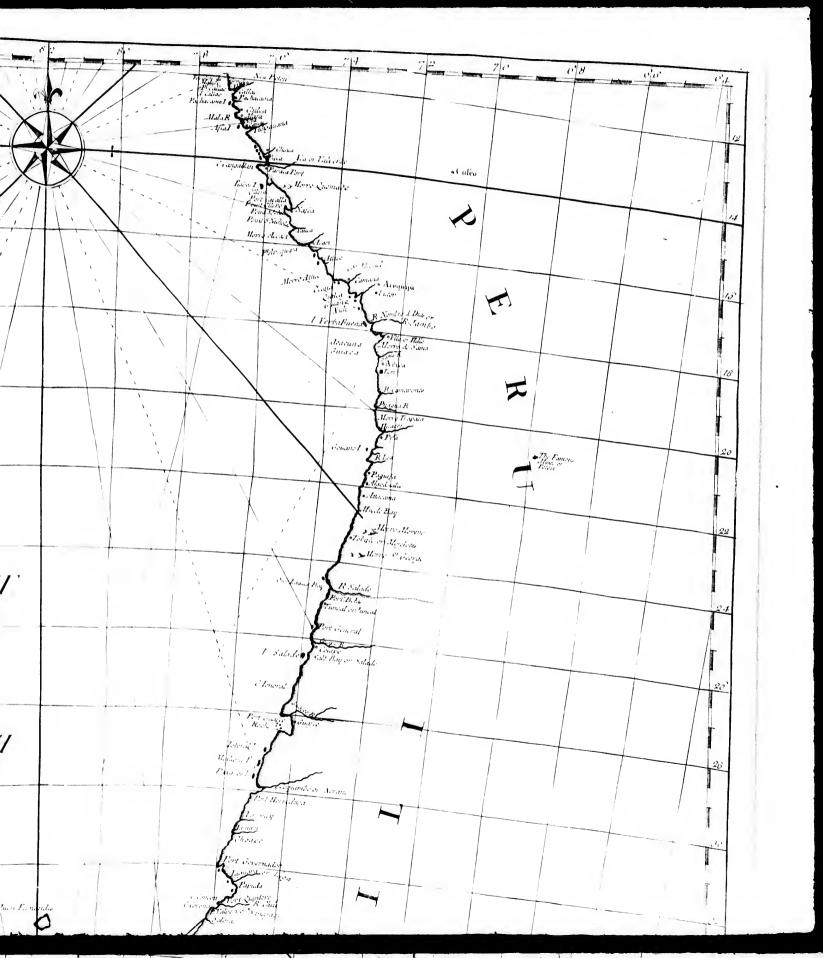
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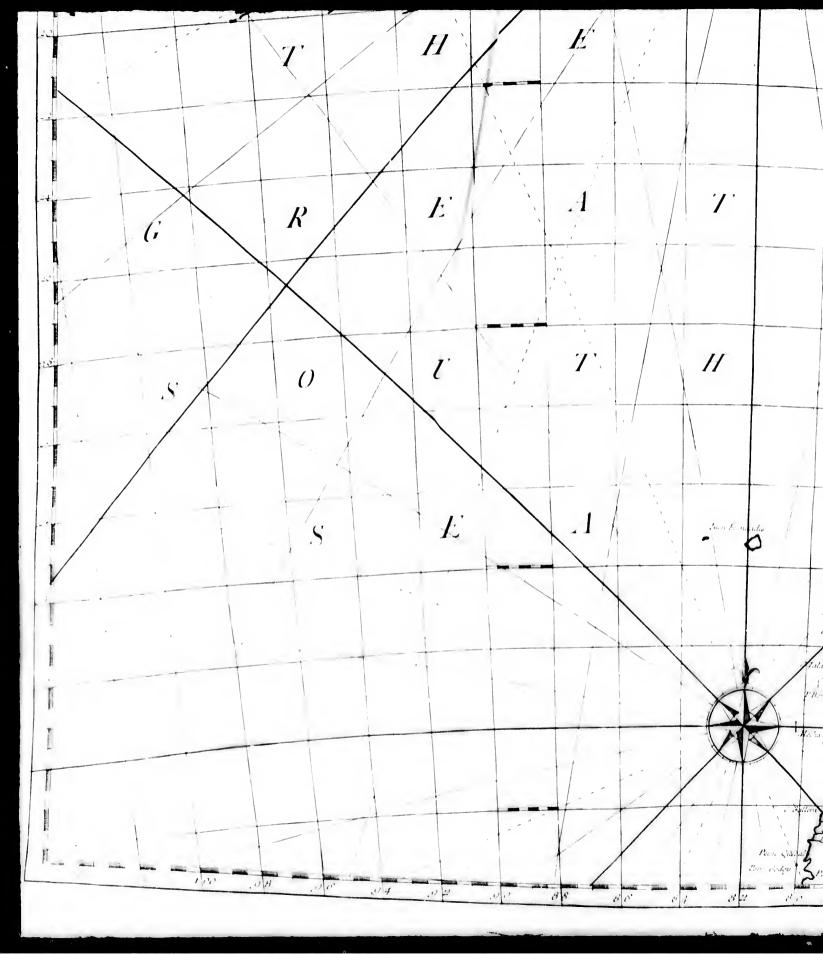


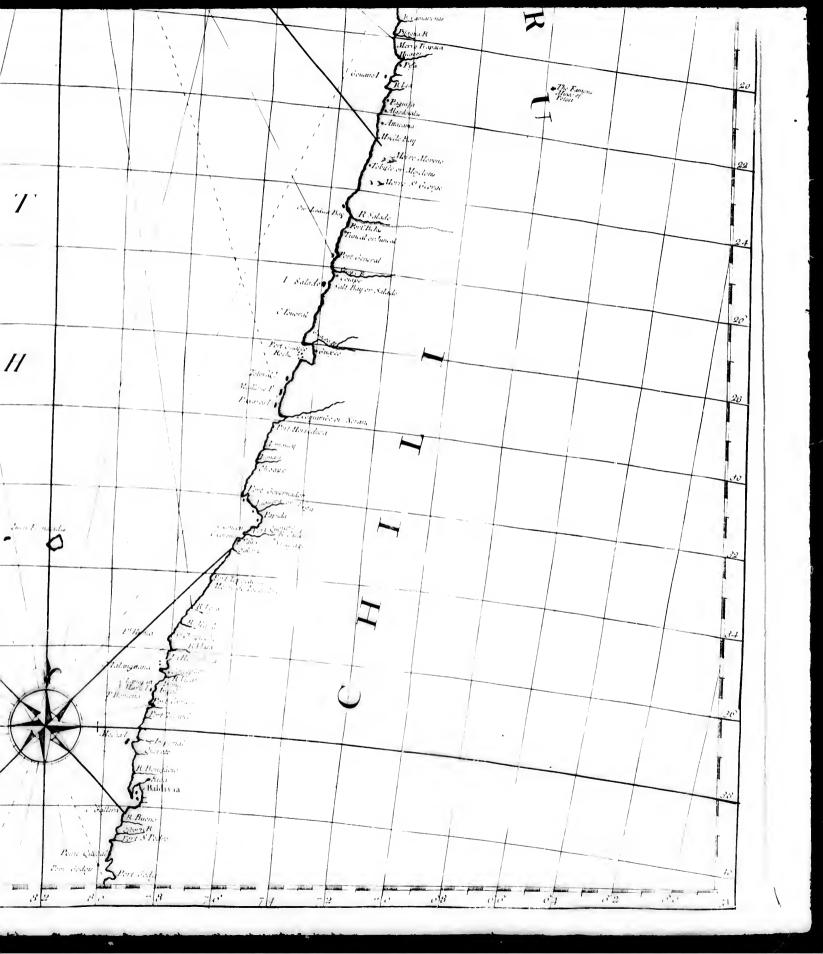


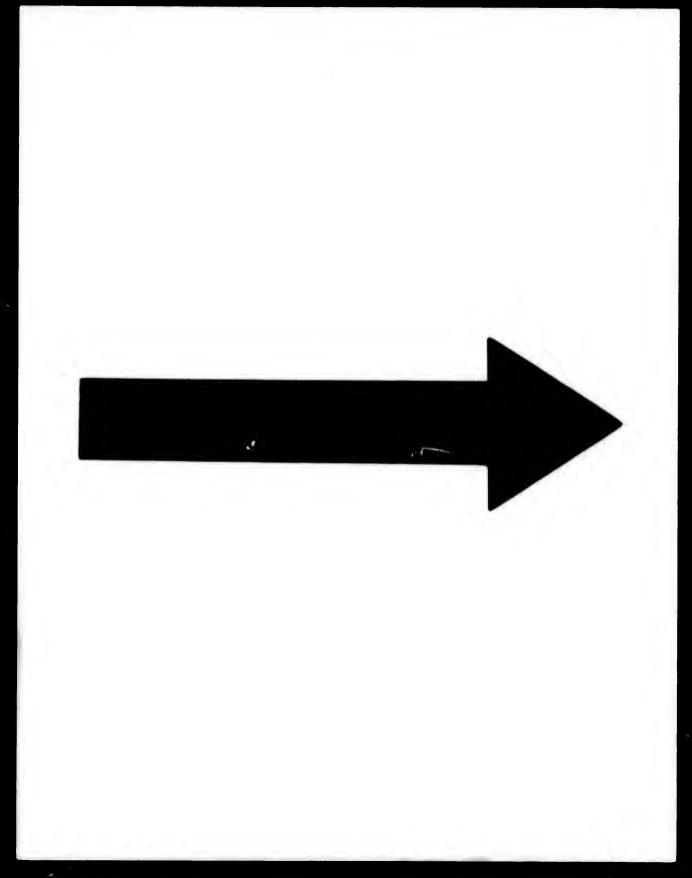












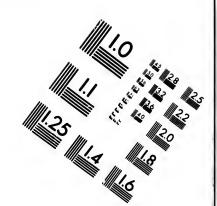
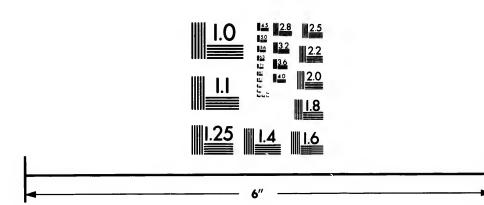
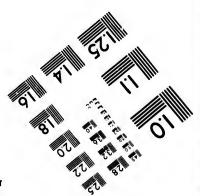


IMAGE EVALUATION TEST TARGET (MT-3)



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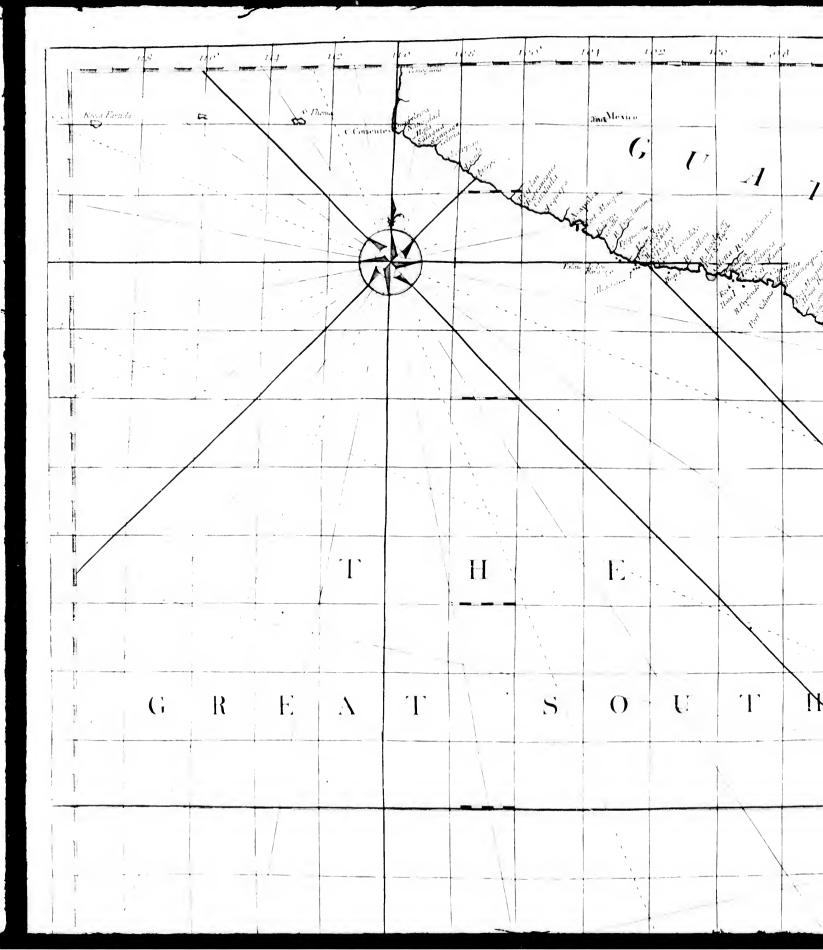
23 WEST MAIN STREET WEBSTER, N.Y. 14580 (716) 872-4503

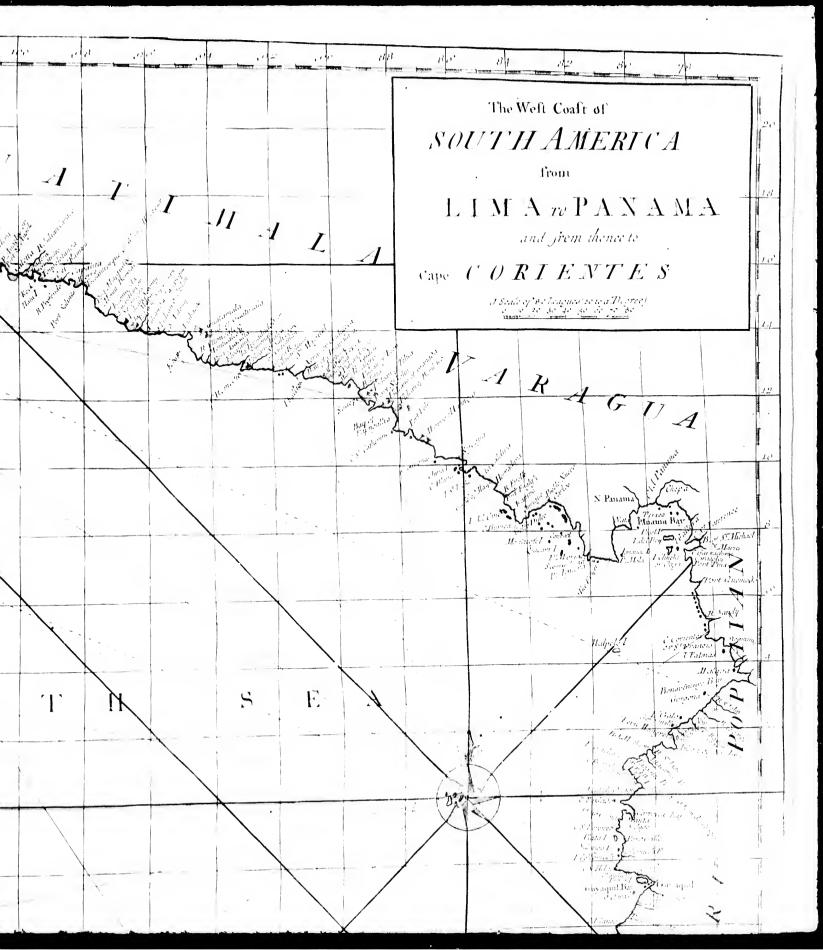


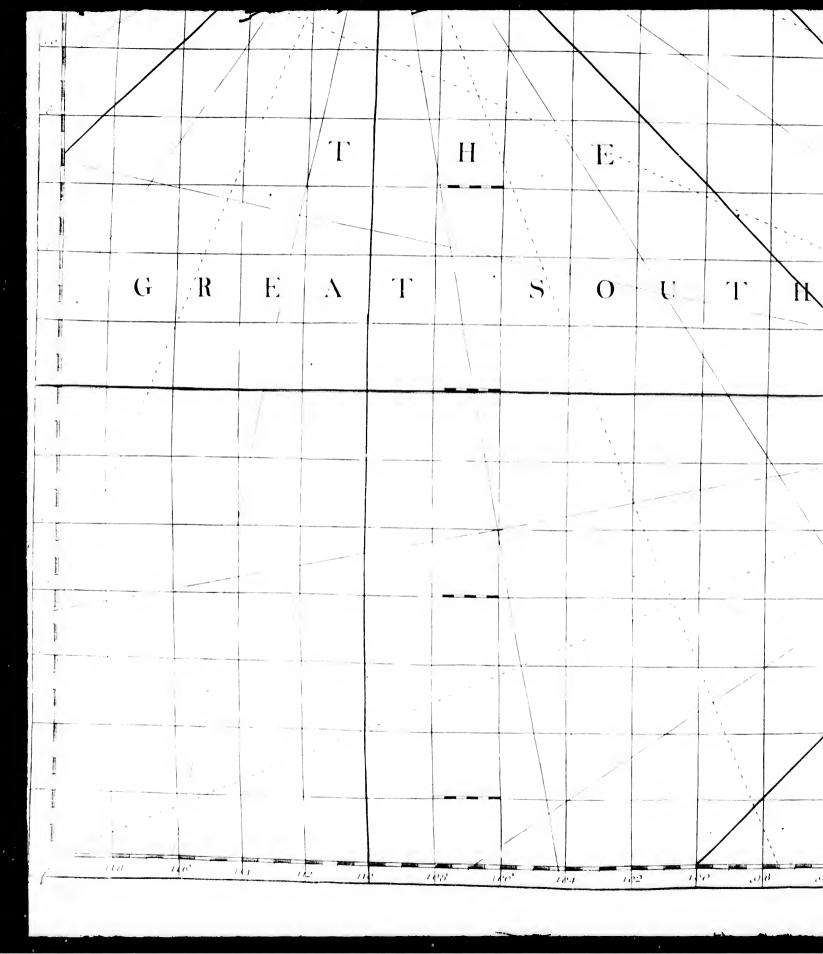


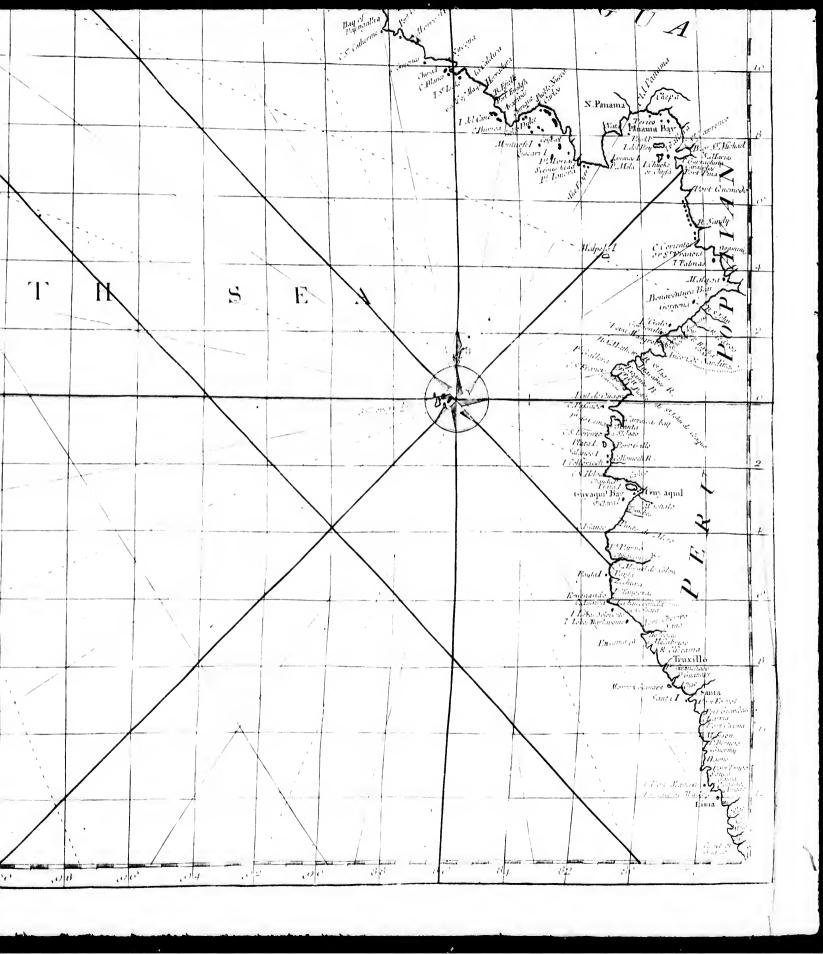












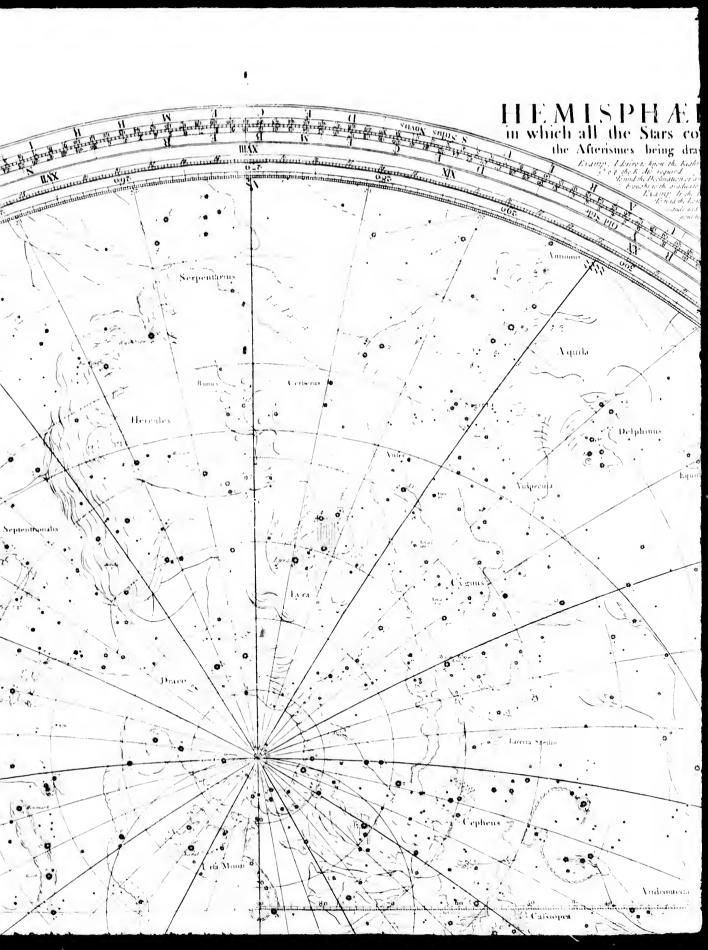


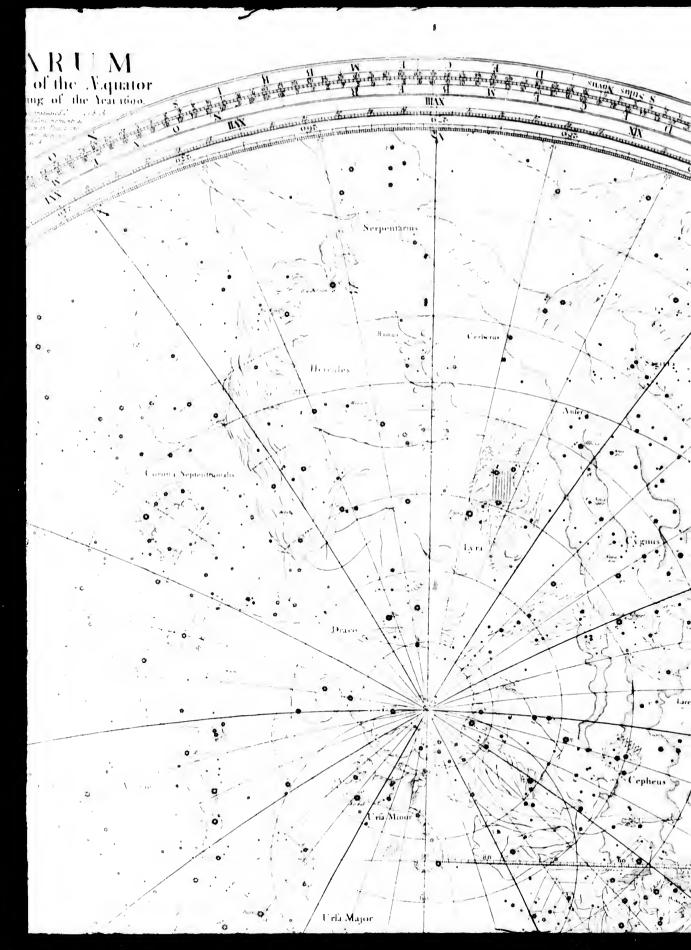


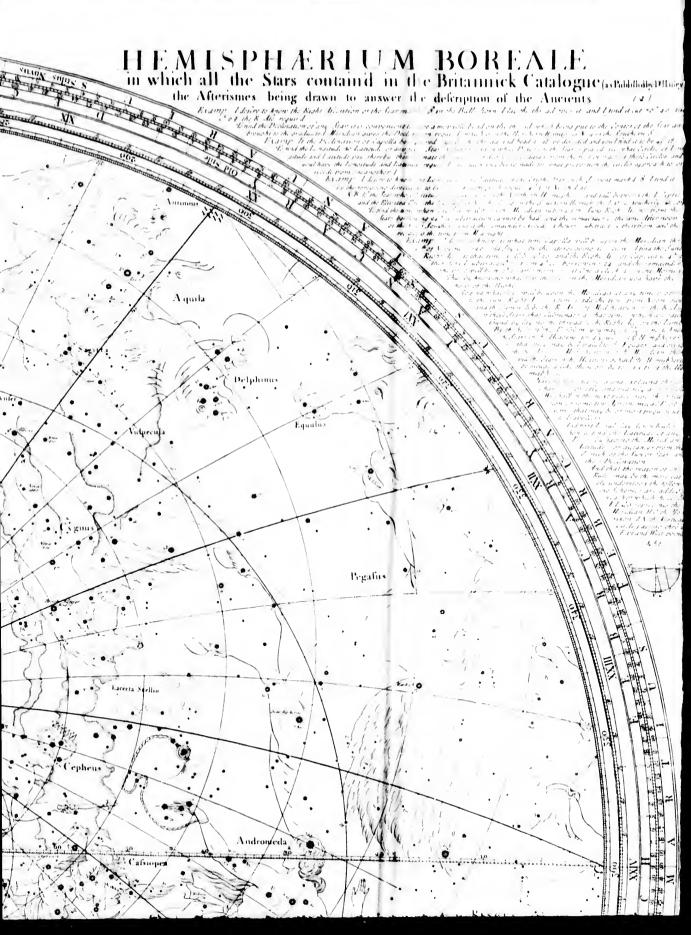
The Northern Hemilphere Brojected on the Plane of the Asquator are carefully laid down and adapted to the beginning of the Year 1600.

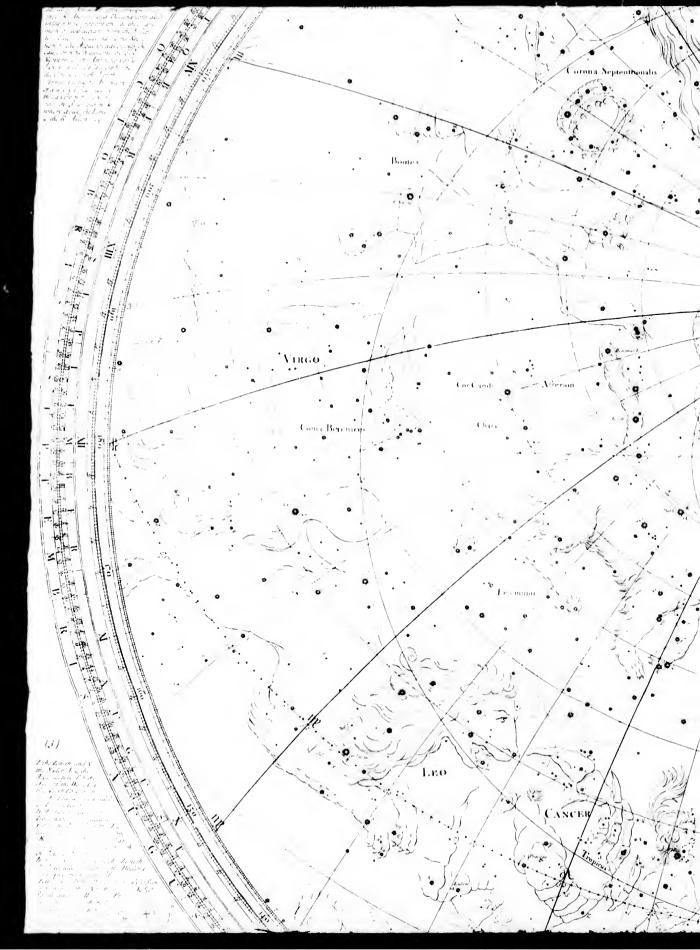
The Northern Hemilphere Brojected on the Plane of the Asquator are carefully laid down and adapted to the beginning of the Year 1600.

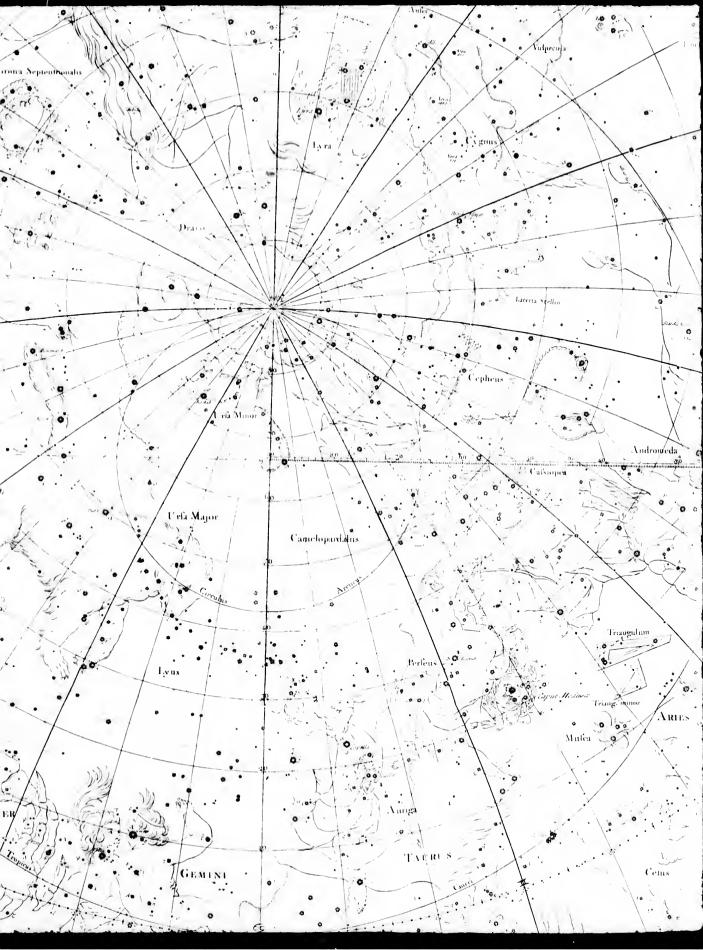
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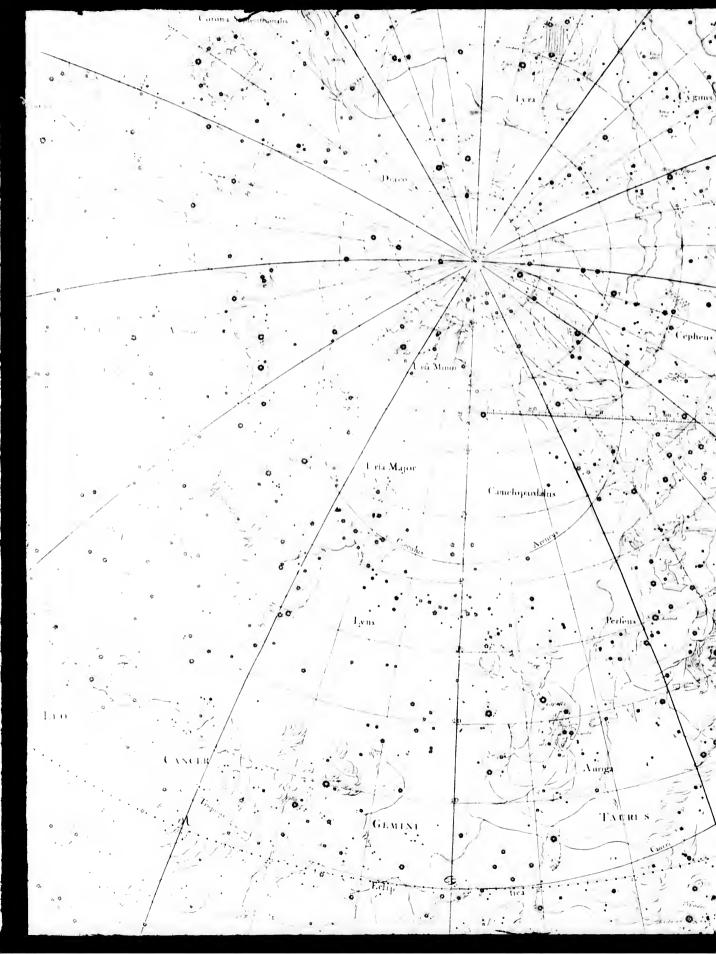


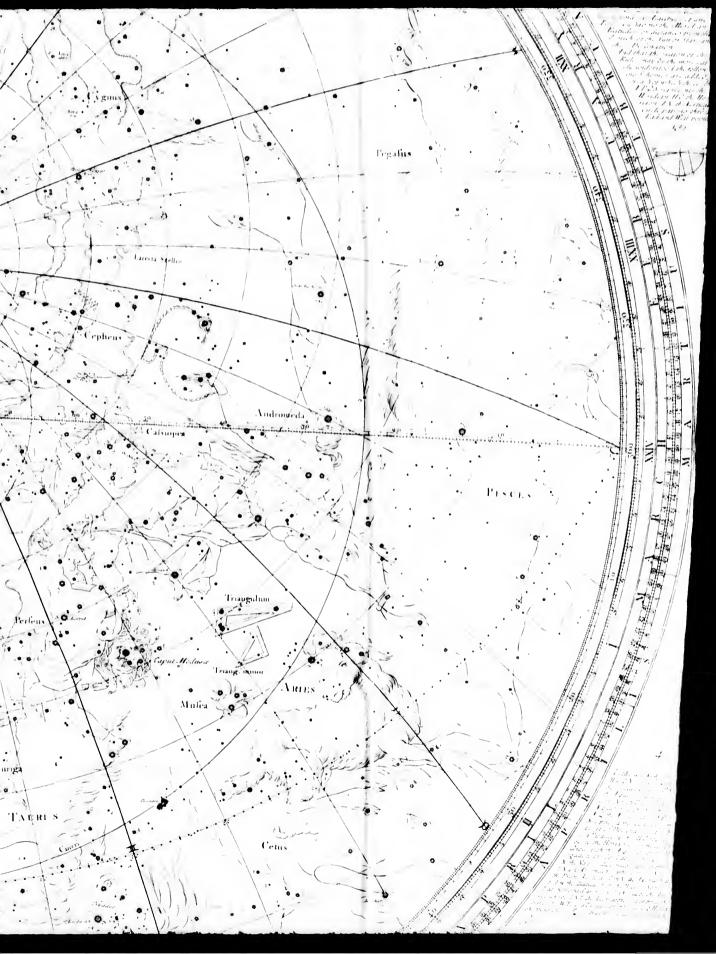


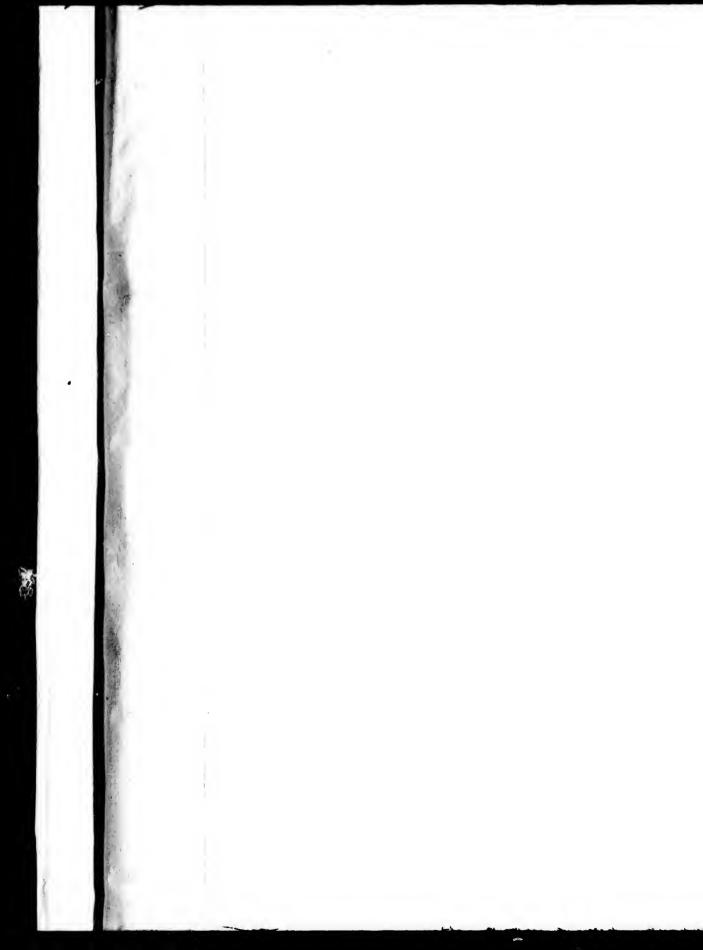














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The Southern Hemilphere Projected on the Plane of the Asquator
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